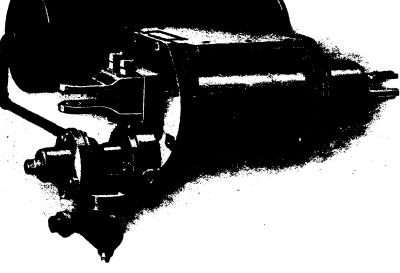
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THE

Railway and Shipping World With which is incorporated The Western World. Established 1890.

Devoted to Steam & Electric Railway, Shipping, Express, Telegraph & Telephone Interests.

OLD Sno		·
New Series, No. 168. Series, No. 86.	TORONTO, CANADA, APRIL, 1905.	10 Cents a Copy, \$1 a Year.

Mutual Benefit Associations

By W. G. Ross, Managing Director Montreal Street Railway.

The formation of mutual benefit associations among the employes of large railway last few successful last industrial companies, started within the from the point of view of the employes as well as the employee that the obas the employer, for the reason that the ob-lect of such ver, for the reason that the genthe employer, for the reason that the out fect of such associations is to better the gen-eral conditions of the second in so doing the original condition of the employes and in so doing improve their standard and create a better

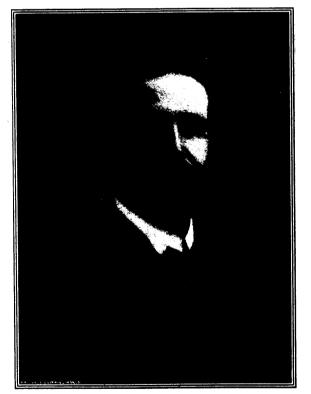
feeling between them and the man-agement. This, I consider, is essential to the process of a comto the proper management of a com-pany, particulate street railways, pany, particularly street railways, which being public service corpora-tions, are continue the in touch with which, being public service corpora-tions, are continually in touch with the public, and when the public know that the management of a company is looking after the mode of its employes, looking after the needs of its employes, their general attitude is materially agree that this in itself is worth atagree that this in itself is worth at-tention, also that the success of a street railway depends to some extent upon its pomularity with the employee and

the general with its employes and The general populace which it caters to. The introduction of the employes' was brought association in Canada Was brought about in 1884, when the Grand True Day of a stabilished, Was brought about in 1884, when the Grand Trunk Ry. Co. established, Parliament, the G.T.R. Insurance and this Society are, to provide benefits or eit, ances to members unable, through allowances to members unable, through usual occuration in the company's sickness or bodily injury, to follow their usual occupation in the company's service; and to assist the legal repre-except salaried employes, who contrib-tion a special superannuation fund of the commence special superannuation fund ite to a special superannuation fund of the company, are compelled to join, paying monthly contributions, the some any paying an amount equal to members. The management of the society is controlled by a board of society is controlled by a board of of officials and amplouse the latter of Greet, 's controled by a of officetors, composed of an equal number whom als and employes, the latter of Society. The G.T.R. Company ex-iew years of its organization in getting the that they were not thoroughly conversant with they were not thoroughly conversant

they were not thoroughly conversant the many of the obtained, with they were not thoroughly conversant but the many advantages to be obtained, and now that it down that it with the many advantages to be obtained, selves with the many benefits from member-plete success

The Canadian Pacific Ry. Co. organized, within the last few years, a pension fund for all mployes. It has no society to provide within the last few years, a pension fund for allowances s. It has no society to provide next, either through sickness or bodily injury. In the spring of 1903 the writer suggested

the formation of a mutual benefit association among the employes of the Montreal Street Ry. Co., and in Aug., 1903, the company re-quested the employes to elect two of their number from each of the various departments to meet the officials of the company, to discuss the advisability of forming such an association. This meeting took place at the head office of the company on Aug. 17. Rules and by-laws were drawn up and proofs dis-tributed to the representatives of the men for careful consideration and discussion among their fellow-employes, the meeting then ad-journing until Aug. 20 to give the men time



W. E. FOWLER. Master Car Builder, Canadian Pacific Ry.

to consider the same. On the latter date all the representatives were present, as well as the officials of the company, and after reading the clauses, the rules and by-laws were passed, as amended, and a temporary board of directors was elected, composed of four members elected by the directors of the company, and four elected by the representcompany, and four elected by the represent-atives present, with the General Manager of the company as chairman. The newly elect-ed board then elected a Secretary-Treasurer and Medical Officer, and in order to ex-pedite matters, ten of the representatives were instructed to devote their whole

time to explain to their fellow-employes the objects of the association and enrol applicants for membership. Forms of application, rules and by-laws, in the English and French languages, were at once printed and in the short period of two months the membership of the association had reached 600. Since then the membership has increased, until to-day it has reached the 1,500 mark, or about 80% of the total number of employes.

The objects of the Montreal Street Railway Mutual Benefit Association are to afford relief to such employes of the Montreal Street Ry. Co. and the Montreal Park &

Island Ry. Co., as may become mem-bers of the said association; by providing allowances, medical attendance and medicine to members when incapable of following their usual vocation in the service of the companies, by reason of illness or bodily injury; by providing a pension for old and disabled members, and by providing allowances in case of death to the representatives of the deceased members. Members, upon admission, pay \$1 as initiation fee, and thereafter 50c. a month, for which they receive in cases of disablement for sickness and cases of disablement for sickness and bodily injury, 60c. a day, including Sundays, for the first 90 days, and 30c. a day, including Sundays, for the next 90 days, including medical attendance and medicine. In cases of sickness the payment starts from the seventh day of illness, no payment being allowed for the first six days and monthly dues are not exacted during disablement. Members over 65 years of age, and having served in the company's employ for 25 years, are also entitled to a pension for life at the rate of 50c. a day, or may commute the daily payment for an immediate payment of a total sum, provided that if the employe temporarily, at any time there-after, shall return to work or engage in any other work, at a rate of daily wages exceeding 50c., the payment of the pension shall be suspended during the continuance of such re-employment or period of actual work. Upon the death of a member, from whatever cause, \$500 is paid, providing the

deceased member was under 40 years age when admitted to membership; \$333.33 when between the age of 40 and 50, and \$166.66 when 50 years and over. In addition to the above sum \$50 is allowed to cover funeral expenses. Leaving the service of the companies severs membership and no member leaving during the first five years of his membership in the association has any claim to insurance benefits or refunds, or a refund of any fees paid during such membership. After five years and up to ten, members severing membership are

(Continued on page 137.)

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CHARLES MILLER,

PRESIDENT.

ÅPR., 1905.

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ADVERTISING RATES furnished on application.

TORONTO, CANADA, APRIL, 1905. 5

Canadian Association of Masters and Mates. Masters, Capt. Jas. Wilson, Collingwood, Ont.; W. Iretand, Parry Sound, Ont.; TREASURER, Capt. McKay, Owen Sound, Ont.; McKay, Owen Sound, Ont.; TREASURER, Capt. M.

Canadian Excursion Agreement Meeting.

Chained an Excursion Agreement Statement, C.P.R. Storarany J. H. Walsh, Sherbrooke, Que. Montreal.

- Canadian Freight Association Canadian Freight Association W. R. Macinnes, Montreal; and Vice-PRES., Testo, Oct.; SEC.-TREAS., J. Earls. Toronto. Mont The Thursday after the first
- Outer SEC. TREAS., J. Earls, Toronto. Outer RLY MEETINGS, The Thursday after the first Orricial One of the Sector of Sector Orricial One of the Sector of Se
- OFFICIAL ORGAN, -THE RAILWAY & SHIPPING WORLD,*

- Canadian Pacific Railway Club.
- Danadian Pacific Railway Club. J. Miller; W. J. Brown; SECRETARY. pro tem, W. Require TREASURER, J. D. Scott. Tooma, Toronto Junction.

Canadian Railway Club.

- Canadian Bailway Club. W. E. Fowler, S. King, Montreal; 1st VICE-PRESIDENT, D. Rowler, Montreal; and VICE-PRESIDENT, W. Hert, Que: TREASURER, S. F. Underwood, Montreal. of each month, 8 p.m., except June, July and Aug.

Canadian Street Railway Association. Vanadian Street Railway Association. W. H. Moore, Toronto; Sec.-TREASURER, Allan H. OFFICA, O. SHIPPING WORLD, TORONTO, THE RAILWAY AND SHIPPING

Canadian Society of Civil Engineers.

Passinent, E: Marceau, Montreal; Vice-Presi-Secartary, C. H. Keefer, D. Macpherson, G. A. Mountain; Marmaga Ar Ser, Discharter St. Montreal, every

Marman AT 877 Dorchester St., Montreal, every alternate Thuraday, 8 p.m.

Canadian Ticket Agents' Association. PARIDENT, C. E. Morgan, Hamilton, Ont.; FIRST Kaspersoner, C. B. Morgan, Hamilton, Ont.; FIRST Theo Vice-Parsoner, W. H. C. MacKay, St. John, N.B.; Challman Regension, W. H. Harper, Chatham, Ont.; or, Out. St.; Sec.: TREASURER, E. de la Hooke, London, U. Supprise

WORLD, Toronto. - THE RAILWAY AND SHIPPING

Dominion Marine Association. P. Dominion Marine Association. Tariburt, J. A. Cuttle, Montreal; 1st Vice-PRESI-C. A. Wright ammond, Toronto; 2nd Vice-PRESIDENT, Generation, Ont. Toronto; SEC.-TREASURER, F. King.

Engineers' Club of Toronto.

ana, 66 King St. West, Toronto.

Great Lakes and St. Lawrence River Rate Committee.

CHAIRMAN, W. M. Lowrie, Buffalo, N. Y. SECRETARY, Jas. Morrison, C.P.R., Montreal.

International Water Lines Passenger Association.

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PRESIDENT, F. S. Henning, Toronto; VICE-PRESI-DENT, J. A. Crapeau, Sorel, Que., SEC.-TREAS., N. J. Morrison, St. John, N.B.

Niagara Frontier Summer Rate Committee. CHAIRMAN, J. E. Bentley, St. Albans, Vt. SECRETARY, G. C. Wells, Montreal,

The Shipping Federation of Canada.

PRESIDENT, H. A. Allan; CHAIRMAN OF EXECUTIVE COMMITTEE, W. I. Gear; MANAGER, T. Robb; SECRE-TARY, T. B. Odell. Office, 526 Board of Trade, Montreal.

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Tenders will be received by the undersigned up to the First of May next, at noon, for the grading, culverts, masonry, bridges, and other works required, between Toronto and Niagara Falls, Ontario. On and after the 27th of this month plans and profiles may be seen and specifications obtained at the Com-pany's Engineering Department, Pacific Building, Scott and Front Streets, Toronto. The lowest or any tender will not necessarily be accented

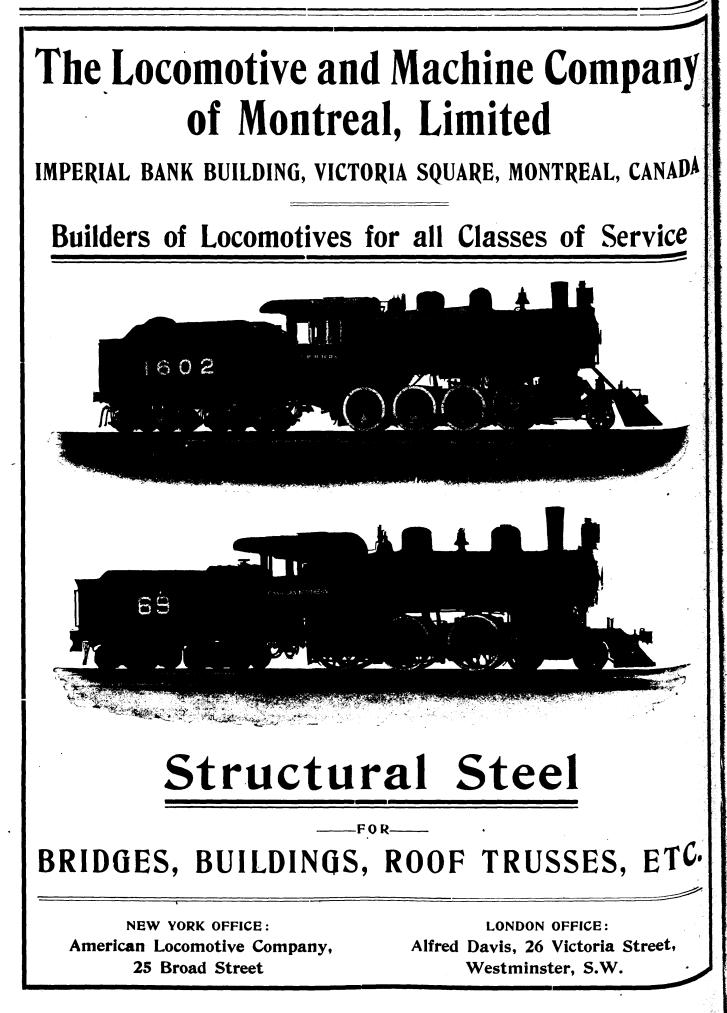
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FREDERIC NICHOLLS, President

Toronto, 16th March, 1905

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Mutual Benefit Associations.

(Continued from page 133.)

allowed a refund of one-third of the fees paid during members of the ten years memduring membership. After ten years mem-bers are allowed a refund of two-thirds, with-out interest in the second paid out interest in every case. Any amount paid to such members for benefits during membership is, however, deducted from the re-funds. The Montreal Street Ry. Co. and the Montreal De Montreal Street Ry. Co. Montreal Park & Island Ry. Co. jointly con-tribute to the & Island Ry. Co. jointly contribute to the funds of the association a sum annually equal to 100% of the annual amount collected from to 100% of the annual amount ollected from members as admission fee, and 50% of the annual amount collected for nonthly dues, and in addition furnish all other expansion of the accommodation and defray all other expenses of management.

From the above, you will admit that the benefits to be derived by being a member yet when one considers that the association Yet when one considers that the association was formed in the discovery of the general strike Was formed immediately after a general strike and that the employes were more or less sus-picious one extent the **bicious, one** can realize to some extent the picous, one can realize to some extent the labor experienced in bringing the same to a plished by some This, however, was accomplished by conscientious work on the part of Under the powthe company and the men. Under the pow-ers of incorporation, granted in May, 1904, 9 members to 15 of which 8 are elected by 9 members to 15, of which 8 are elected by and 7 by the members of the Montreal Street Ry. Co., The increase in the and 7 by the members. The increase in the to have a lows the various departments which prevents in the various department of the board, which prevents jealousy existing among the employes of the prevents. Meetemployes of the various departments. a statement of the various departments. A statement of the board are held monthly, at which the previous of the revenue and expenses for the previous month, the benefit claims and for admission admission of the second secon for admission are submitted for approval, and other most are submitted for approval, and all other matters of interest to the association are taken. The annual are taken up and discussed. The annual the usual bud in June in each year, and after the usual business is transacted, a smoking concert is beld its to be business is transacted. concert is held, the talent being selected from the members, the talent being selected from he members present. During the course of the last year a picnic under the auspices of the source of our leading association was held at one of our leading arts, last; was held at one of our leading arts. **Parks**, lasting for four days, and netted a conditions of el per optimistic profit in spite of the unsatisfactory weather puring the month profit, in spite of the unsatisfactory weather conditions, of \$1,361.88. During the month treal Street Ry, Co., the members and their ber receiving two tickets and the necessary transportation to tickets and the necessary transportation tickets, in order to attend the retertainment tickets, in order to attend the entertainment without expense. a great success and was very much appreci-ness and attention on the part of the com-obtained. The members who, as I said be-of emails over 80% of the total number fore, represent over 80% of the total number of employee foot the total number of employes, feel that they are being consider-ed and are ; et al. and are ;

ed and are in consequence interested in the Welfare of the association.

During the association. Aution has paid out the following amounts, which go to show the great necessity for such from Cick pace and injury claims, an association: Sickness and injury claims, \$6,866.85; death and burial, \$3,517.67; med-icine, \$384.78; medical examination, \$971.50; 116.04. The

The revenue from all sources for the same Period has been as follows:

Prom members-Fees

enic. ^{iterest}	⁴⁵ ······	\$ 6,031.50 6,000.00	
" Donatio		4,374.50	
Decin	Dues	1,657.00	\$10,406.00

leaving a surplus for 16 months of operation contribution of \$12,031.00, the expenses of management and organization for the same period amounted to \$10,292.79, making a total cost to the company of \$22,232.79. During the last nine months of operation, the following work has been done by the medical department:---Number of consultations, 2,902; number of visits, 388; number of prescriptions, 1,147.

In view of the large increase in membership arrangements were completed on Feb. 1 last to open medical offices at the different depots of the company, where physicians would be in attendance daily, excepting Sundays and holidays, between 11 a.m. and 12 noon, this being in addition to the office of the chief medical officer and examiner, whose office is at the head offices of the association. This additional accommodation has been much appreciated by the members. Sick committees of four to visit the sick have been formed in the various depots and departments of the company, of which the director representing the depot or department acts as chairman, and the duties of such committee consist in visiting disabled members and reporting thereon.

Our requirements for the pension and death funds have been carefully passed on by a life insurance expert, and every precaution has been taken to secure the complete success of the association.

April Birthdays.

Many happy returns of the day to-J. A. Armstrong, Chief Dispatcher C.P.R., Ottawa, born at South Durham, Que., April 6, 1863.

Adam Brown, formerly President Wellington, Grey and Bruce Ry. (now G.T.R.), Vice-President G.N.W. Telegraph Co., and Postmaster of Hamilton, born at Edinburgh, Scotland, April 3, 1826.

A Buchanan, Superintendent of Motive Power and Car Department, Central Ver-mont Ry., St. Albans, Vt., born at New York city, April 3, 1870. W. J. Camp, Electrical Engineer C.P.R.

Telegraphs, Montreal, born at Oakville, Ont.,

April 22, 1855. A. H. Clark, Master Mechanic, Irondale, Bancroft and Ottawa Ry., Irondale, Ont., born April 5, 1867.

P. Cockburn, Manager and Secretary A Muskoka Lakes Navigation and Hotel Co.,

Gravenhurst, Ont., born in Finch tp., Stor-mont, Ont., April 7, 1837. J. H. Flock, K.C., Honorary Counsel Can-adian Ticket Agents' Association, London, Ont., born at Toronto, April 6, 1834.

B. W. Folger, Manager Niagara Naviga-tion Co., Toronto, born at Kingston, Ont., April 8, 1872. G. H. Garden, C.E., Chief Engineer Al-

berta Ry. and Irrigation Co., Lethbridge, Alta, born at Woodstock, N.B., April 5, 1849. J. P. Gay, Manager G. T. Despatch Fast Freight Line, Detroit, Mich., born at Hamil-

ton, Ont., April 26, 1857. E. A. Geiger, ex-Superintendent Brock-ville, Westport and Northwestern Ry., Brockville, Ont., born at Newark, N.J., April 10, 1863.

B. C. Gesner, formerly Air Brake Inspector I.C.R., now travelling representative, Galena-Signal Oil Co., born at Cornwallis, N.S., April 23, 1859.

A. L. Hertzberg, Division Engineer C.P.R.,

Toronto, born in Norway, April 30, 1855. E. J. Hilliard, Commercial Agent G.T.R. Buffalo, N.Y., born at Montreal, April 14, 1870.

J. M. Horn, city freight agent Canadian Northern Ry., Winnipeg, born at Schotts, Lanarkshire, Scotland, April 12, 1880.

E. A. James, Manager Canadian Northern

Ry., Winnipeg, Man., born in London, Eng., April, 1865.

B. S. Jenkins, General Superintendent C.P.R. Telegraphs, Winnipeg, Man., born April 8, 1859.

J. S. Lawrence, Superintendent C.P.R., Nelson, B.C., born at Toronto, April 9, 1863. D. McNicoll, Vice-President C.P.R., Mon-

treal, born at Arbroath, Scotland, April, 1852. W. A. Ritchie, District Superintendent, The Pullman Co., Montreal, born at Edinburgh.

E. V. Skinner, Assistant Traffic Manager
 C.P.R., New York, born in London, Eng., April 22, 1849.

J. W. Smith, General Assistant Canada Atlantic Ry., Ottawa, Ont., born at St. Albans, Vt., April 16, 1866.

A. M. Sutherland, Assistant Superintendent, Duluth, South Shore and Atlantic Ry., Thomaston, Mich., born at Hartford, Conn., April 2, 1844.

April 2, 1844.
J. E. Schwitzer, Resident Engineer, Central Division, C.P.R., Winnipeg, Man., born at Ottawa, Ont., April 19, 1870.
J. R. VanCleve, Master Mechanic, White Pass and Yukon Route, Skagway, Alaska, born at Little Falls, Minn., April 6, 1859.
W. Wainwright, General Assistant and Comptroller, G.T.R., Montreal, born at Manchester, Eng., April 30, 1840.
J. J. Wallace, General Freight Agent, I.C.R. Moncton, N.B., born in Albert Co., N.B., April 20, 1847.
Hon. J. Wood, President and General Manager, New Brunswick and Prince Edward

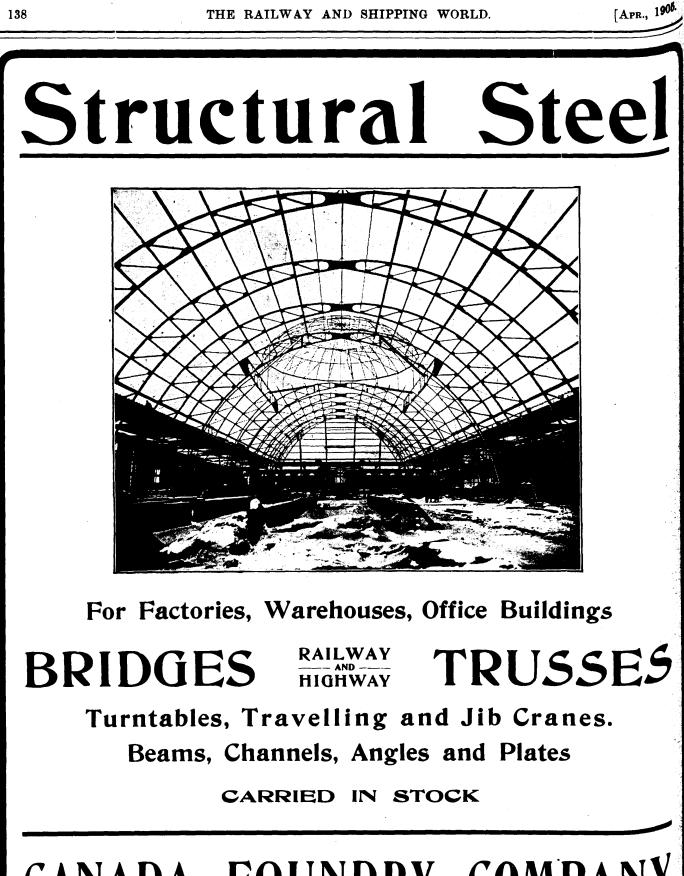
ager, New Brunswick and Prince Edward Island Ry., Sackville, N.B., born at Sack-ville, N.B., April 18, 1843.

W. Woollatt, ex-General Superintendent Buffalo division Pere Marquette Rd., Walkerville, Ont., born at Weedon, Hertfordshire, Eng., April 2, 1855.

Place Names in Canada-The Dominion Geographic Board was organized in 1898 by Order-in-Council, and has issued five reports. the fifth bringing the work of the Board down to June 30, 1904. During that time the Board has given decisions in regard to the spelling of the names of 2,494 places in Canada, distributed among the different provinces and territories as follows:—Alberta, 106: Assimibio: 21: Attachagem 24: Decision 106: Assiniboia, 21: Athabasca, 24: British Columbia, 604: Franklin, 100; Keewatin, 47: Mackenzie, 12: Manitoba, 37: New Brunswick, 95: Nova Scotia, 80: Ontario, 639: Prince Edward Island, 11: Quebec, 639; Prince Edward Island, 11; Quebec, 319; Saskatchewan, 40; Ungava, 78; Yukon, 282. The report gives the authorized spell-ing with the location of the place in alphabetical form, the old name or the old spelling being given in italics, with a reference to the authorized name or spelling. A new feature has been added to the fifth report in the shape of a list of the names in respect of which decisions have been given, arranged alphabetically, under the separate districts or provinces. The by-laws provide for monthly meetings of the Board, and for the presentation of an annual report, but the latter by-law appears to have been overlooked, as the fourth report was issued in 1903, and gave the de-cisions up to June 30, 1902. A more frequent A more frequent publication of decisions should be made, either by special bulletin, or by notice in the Canada Gazette after each meeting,

In the report of the passenger meetings at Buffalo, in our Feb. issue, we stated that a gavel was presented to President A. A. Shantz on behalf of Poole Bros., Chicago, by C. H. Nicholson. We should have said that T. Henry, Traffic Manager of the Richelieu & Ontario Navigation Co., made the presenta-tion on behalf of Poole Bros.

The screen cloth painting tower at the B. Greening Wire Co.'s Works, Hamilton, Ont, was destroyed by fire Mar. 3. The fire did not affect any other branch of the company's business.



CANADA FOUNDRY Head Office and Works: TORONTO - - ONT. District Offices: MONTREAL HALIFAX OTTAWA WINNIPEG CALGARY VANCOUVER ROSSLAND ,

STEAM RAILWAY STATISTICS FOR YEAR ENDED JUNE 30, 1904.

In this table the minus mark (-) before figures in the net earnings column shows that there was a deficit in the operations of the line extent of the figures given. The numbers in brackets—thus (1)—after the name of a railway refer to notes on page 141.

	<u> </u>									
				Proportion of earnings to working expenses	Earnings per train mile	Operating per train mile				
Name of Railway	Mileage	Gross	Net	tio1 ngs exp	lgs mi	n n	Train	Engine	Passengers	Freight
()	Mineage	Earnings	Earnings	Proportion earnings to orking expe	ain	erat ain	Mileage	Mileage	Carried	Carried
				Pro es	t Ba	9 G				
Alb				P						
Alberta Ry. and Coal Co Algoma Central and Hud. Bay Atlantic and Lake Superior (1)	66.72	\$ 129,822.67	\$ 28,342.99	р. с. 128	Cts. 3.09	Cts. 2.42	Miles 41,892	Miles 127,798	14,304	Tons 79,356
Ban - 440 John C	91.75 100.00	160,007.28	34,301.24	127 125	5.31	4.17 0.70	30,125 65,000	119,975 65,000	16,032	294,484 26,957
Brit: 500n and Mat	50.01	233,635.78	74,336.96	145	1.35	0.92	172,496	172,496	102,258	300,845
Nto-1 - UKOn	$15.30 \\ 90.32$	537.02 348,991.45				4.34 2.45	$2,156 \\ 73,044$	2,180 73,932		$\begin{array}{r} 448\\32,361\end{array}$
Silot, "Hulles and Al	45.00 16.62	48,431.25	17,638.59	157	1.05	0.66	46,074	46,074	59,457	17,899 22,120
Calor and Monthly and Monthly	10.02 32.00			92	1.04	1.13	5,400 18,368	5,400 19,836	11,382	22,120 23,518
Vana i Allantio (r)	458.60	229,637.52 1,761,300.07	40,197.04 423,611.47			1.52 1.01	124,442 1,313,637	148,808 1,741,073		48,019 1,324,913
Can - 4dStern	12.00	37,246.33	12,152.73	149	1.74	1.17	21,389	28,389	11,139	80,666
Cana in Southern (a)	00	6,364,056.17		110	1.81	$\begin{array}{c} 0.68 \\ 1.64 \end{array}$	170,130 3,514,791	4,807,020	711,097	85,944 5,280,046
Inter Government Days	1,343.30	3,242,702.69	1,121,931.26	153	1.91	1.25	1,697,986	1,776,782	358,133	1,109,585
Cano un Edward T	1,310.26					1.11	6,503,579	8,224,858		2,664,149
Cape Breton	209.00 8,062.00				1.95	51.08 51.34		406,007 32,019,394		86,286 11,112,514
Canit	01.00	6,196.73	- 7,869.28			0.85		16,982 75,240		3,742 22,055
Crossed Ontario (10)	13.00	1,936.93	– 1,909.38	50	0.26	0.52	7,367	7,887	6,421	80
Climat VEST Canad	134.60 43.38					$1.03 \\ 3.11$	129,330 18,359			$277,088 \\ 61,320$
	$32.00 \\ 220.50$		20,714.05	120		1.41	71,443 566,626			456,159 306,556
Esin and Havel	4.50	13,543.88	-4,126.18	77	1.98	32.58	6,850	6,850	17,487	31,706
"redent and Nonet	28.00 78.00					0.82 0.78	14,996 284,284	14,996 284,284		8,523 192,112
	1 22			1						,
Guik orthern D	1.33 3,143.60	25,786,963.14	8,072,704.81	145		31.04				
House and V						0 1.32 0.54				286,671 8,714
Halifax and Yarmouth Halifax and Southwestern (16) Hereford (17) Inverness P	50.20 96.00	39,884.24	9,530.13	131	0.82	20.63 51.14	48,100		51,477	9,540 41,328
Intereford (17) St. Martins(35)		4,261.70) 44.45	5 	1		10,800	10,800	3,749	3,732
						$5 1.30\\5 1.12$				133,892 194,021
		21,702.19	-3,492.88	8 86	0.66	3 0 . 39	32,786	33,000	8,673	21,928 10,270
Ketti and D.	27.00	17,170.74	3,605.8 4	126	0.9	$2 2.13 \\ 5 0.75$	18,000		7,110	18,049
Les Erie and Valley (19)	3.86) 33,564.98) - 330.75		$\begin{vmatrix} 1.11 \\ 2.17 \end{vmatrix}$	$\begin{array}{c c} 0.91 \\ 7 2.30 \end{array}$	164,752 2,485	165,532 2,485		99,620 33,810
	223.41	1,008,621.10	168,393.81	120	1.20	31.05	796,787	1,110,641	609,265	1,339,966
Motiniere and Milton	5.00	9,267.40	3,288.08		1.12	20.72	15,050 8,300	8,300	25,160	1,307 22,678
Winner North Shore	16.00					$2 0.89 \\ 3 1.79$			10,440 3,205	29,109 134,333
Mand of Malley (21)	25 46	156,936.01	35,553.6 4	130	0.98	50.73	165,084	227,449	136,077	353,039
Maureal and Atlantic (22)	162 50	412,040,10	2 15,151.73 -54,271.88		1.1	0 0.46 1.25	372,124		3 55,612 211,546	844,123
Not sev r verm't Ict (22)	22 60	74,498.40) - 6,039.20		0.93	$\begin{array}{c c} 3 & 1 & 0 \\ 1 & 0 & 8 \end{array}$	79,920	90,884	l 108,475	
N and permie and Michel	4 72	24,862.72	3,284.63	3 115	1.41	1 1.22	17,603	18,560) 7,250	135,743
No. Bruns of Fr. Edward Is	27 50					$1 2.21 \\ 5 0.48$				
No. West Southern	00 50	9,117.72	2 196.96	5	0.70	0.60	25,470 55,536		3,674	5,200
No Ousing Ster South'n (25)	24.10	22,921.87	- 15,927.68	3 59	0.90	0 1.52	25,543	26,693	3 22,203	24,844
On Man St. & Coal Co 's D	10 50				1.1	$52.86 \\ 51.19$	15,000		7	28,606 145,321
Ottawa North	26.50	24,165.26	531.96	6 102	0.68	$80.67 \\ 50.92$	35,202	35,202	2 7,446	36,439
Qui Apsburg D. & Western (26)	56.79	87,186.30	3 19,314.87	128	1.44	41.12	60,408	60,438	8 58,416	20,669
One Cents Lake & Sachat	952.00	4,926.82 409,087.30				$ \frac{10}{10} $		726 278,834	6 4 40,141	4,608 123,364
Unal and T (41)	012 50	726,649.2	2 215,874 50) 142	1.16	$\frac{50.82}{30.90}$	625,563	636,346	3 221,795	433,759
Quebec Ry. Lt. and Pr. Co. (28) Output Southern (29)	240.00 30.00	43,833.4	2 10,049.54	4 130	1.1	1 0.85	39,318	39,668	3 155,980	35,313
(29)	143.50) 168,653.3	7 – 17,177 6	5	'	.	234,930	236,011	1 78,309	141,755

(Continued on page 141).

Montreal Steel Works, Ltd.—The annual report for 1904 shows that the net earnings for the year, after providing for all contingencies, were \$116,090.59. Four quarterly dividends on preferred stock at the rate of 7% per annum, amounting in all to \$56,000.-00, were paid at due dates. The plant and buildings have been fully maintained out of revenue, and the sum of \$19,235.40 has been set aside and carried to the credit of reserve account to provide for depreciation and extinguishment of buildings and plant, and for such other purposes as the directors may determine. Directors' and auditors' fees for 1903 have been paid, leaving \$40,205.19 at the credit of profit and loss account, which, with \$37,936.00 already at the credit of the account at the beginning of the year, made the total balance at the credit of the account at Dec. 31, 1904, \$78,141.19. Quarterly dividends on common stock at the rate of 5% per annum were paid for 1903, and the directors declared a dividend of 5% on com-

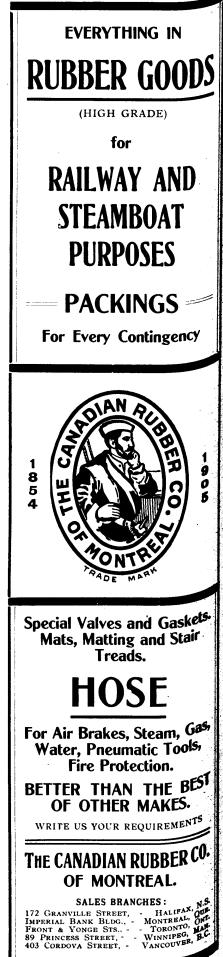
mon stock for the year 1904, payable Mar. 15, 1905. The iron and steel business during 1904 was generally unsatisfactory, both as to volume and prices, but the outlook for 1905 is more encouraging. The new plant, as expected, has resulted in reducing the cost of production and is working in a satisfactory manner.

The John Bertram & Sons Co., Ltd., Dundas, Ont., has recently supplied the Dodge Manufacturing Co., of Toronto, with one of its new patent head, high-speed turret manufacturing lathes, for the rapid production of duplicate work.

The Transportation Club of Buffalo, N.Y., had a membership of 600 as reported at its recent annual meeting, the list including several members resident in Canada. The general fund showed a balance on hand of \$4,-242.97, and the benefit fund \$801.05. During 1904 four benefits of \$500 each were paid to the families of deceased members.

This LITTLE NORTON JACK Isn't much more than a handful, but it will lift 15 tons and is the **Standard Journal Jack** of the leading Railroads. 50 other styles, 8 to 70 tons capacity You can try them without expense. Ask A. O. NORTON, He makes Jacks COATICOOK, PROV. OUEBEC

Stock carried by Canadian Agents: W. H. C. MUSSEN & CO., Montreal.



DIEAN KALLWAT DIATISTICS FOR TEAR LADED JOIN 0, 100 (Community of 178 - 079)										
Name of Railway	Mileage	Gross Earnings	Net Earnings	Proportion of earnings to working expenses	Earnings per train mile	Operating per train mile	Train Mileage	Engine Mileage	Passengers Carried	Freight Carried
Red Mountain. Rutland and Noyan (30) Salisbury and Harvey	9.59	61,221.87	v 11,119.89	p. c. 122	Cts. 3.68	Cts. 3.02	Miles 16,615	Miles 30,849	14,391	Tons 239,614
Schomberg and Association	$3.39 \\ 45.00 \\ 15.00$					1.11 0.31	$24,742 \\ 10,000$	30,729 10,000		35,780
St. Clair Tunnel (21)	43.00	77,098.97	22,417.31	141	1.09	0.77	70,597	86,840	143,191	1,049,961
Sva Mary's River (00)	$\begin{array}{r} 32.82\\ 47.00\end{array}$	221,727.27 36,195.79	16,448.42	183	0.96	0.75	37,467	45,030	8,321	29,420
The The Take T	113.00		17,383.75	115	0.87	$ \begin{array}{c} 1.88 \\ 0.76 \\ 0.58 \end{array} $	155,578	556,027 155,578 55,120	58,863	3,152,027 90,636 25,709
		34,361.25	9,446.71	137	0.95	0.69	36,014	36,014 620,083	46,801	30,599 1,026,945
Victoria and Sidney (25).	16.50	27,434.62 26,729.23	13,003.86 -2,477.00	190 92	$ \begin{array}{c c} 2.03 \\ 1.00 \end{array} $	1.07 1.10	26,424	14,522 26,424	41,694	15,013 23,633
Wellington Colliery Co York and Carleton	10.75	4,402.20	- 16,789.20	21	0.21	$0.94 \\ 0.99 \\ 4.12$	21,296	21,296	3,776	33,108 216,231 3,200
N		*\$100,219,436.22			1.12		·		*23,640,765	

STEAM RAILWAY STATISTICS FOR YEAR ENDED JUNE 30, 1904-(Continued from page 139.)

Notes to Steam Railway Statistics.

(1) The Atlantic and Lake Superior Ry. (1) The Atlantic and Lake Superior 77, 100 miles refers to the Baie des Chaleurs Ry., and the Ott The Great Eastern Ry., 23 miles, 7 miles are not and these. The Great Eastern Ry., 20 miles, under traffic. The railway is in the posses-tion of the bord battern and is operated by sion of the bondholders, and is operated by

(2) The Bay of Quinte Ry. includes the (3) The Day of Quinte Ry. Napanee and Western Ry.

(3) The Bedlington and Nelson Ry. has (3) The Bedlington and Nelson Ry. 1125 Jet. to Sirdar Jet., 8.67 miles. It is operated U.S. the Great Northern Ry.,

(4) The Calgary and Edmonton Ry. re-date are up to Sept. 30, 1903, only, on which lease. Its mileage is included in the C.P.R. Its mileage is included in the C.P.R.

(b) The Canada Atlantic Ry. mileage, in-Sound Ry., is 400.30 miles. It operates miles, and the Pembroke Southern Ry., 20.90. (6) The Canada Sunthan Ry mileage in-

(6) The Canada Southern Ry. mileage in-udes the The Canada Southern Ry. mileage includes the Learnington and St. Clair Ry., 15.95 miles Control Chatham and Lides the Learnington and St. Clair Ky., 15.95 miles, and the Sarnia, Chatham and has 149.34 miles, operated under lease. It Ry, is controlled by the Michigan Southern Ry, is controlled by the Michigan Southern

(7) The Canadian Northern Ry. mileage (1) The Canadian Northern Ry. micage toba and Portage and Northwestern Rys., 354.65 miles Constant under lease from the 354.65 miles, operated under lease from the lines: Winning Overnment, and the following

ines: Winnipeg, Great Northern, Port Arthur, Juluth and Western, Lake Manitoba Railway eastern, and Onterio and Rainv River Ry, eastern, and Ontario and Rainy River Ry., 998.65 miles. It also operates 56 miles of ine in Minner of the connects the O. and R.R. Ry. with the Man. S. Ry. The figures given in the table refer to the Canadian lines

(8) The Intercolonial Ry. mileage, 1,310.26, acludes the Decolonial Ry. mileage, 1,310.26, but not (8) The Intercolonial Ry. mileage, 1,310.20, includes the Drummond County Ry., but not leased to the Dominion Atlantic Ry. It has running Dowers Over the C T R, from Point Levis to Hedlow over the G.T.R. from Point Levis to Hadlow, Que., 1.50 miles; from

Chaudiere Curve to Chaudiere, Que., 1.18 miles, and from Ste. Rosalie Jct. to Montreal, 37.62 miles, a total of 40.30 miles.

•(9) The C.P.R. mileage includes lines owned 4,742.40 miles, and the following leased lines: Calgary and Edmonton, 296.20 (from Sept. 30, 1903); Fredericton, 22.10; New Sept. 30, 1903); Fredericton, 22.10, New Brunswick, 174.80; New Brunswick and Canada, 117.20; St. John and Maine, 91.80; St. John Bridge and Ry. Extension, 2.00; St. Stephen and Milltown, 4.60; Tobique Valley, 28.00; Cap de la Madeleine, 2.30; Montreal and Lake Maskinonge, 11.00; Atlantic and Northwestern, 200.70; Montreal and Ottawa, 93.50; Ontario and Quebec, 471.40; St. Lawrence and Ottawa, 58.30; Credit Valley, 175.70; Guelph Jct., 15.00; Toronto, Hamilton and Buffalo, 2.20; Toronto, Grey and Bruce, 191.10; West Ontario Pa-26.60; Manitoba and Northwestern, cific. 294.60; Manitoba Southwestern Colonization, 215.70; Kootenay and Arrowhead, 33.40; Columbia and Kootenay, 59.50; Nakusp and Slocan, 36.30; Shuswap and Okanagan, 50.80; Ottawa, Northern and Western, 158.70 (from Oct. 31, 1903); Columbia and Western, 157.10; Great Northwest Central, 111.70; British Columbia Southern, 200.40; Van-couver and Lulu Island, 16.90. It has also running powers over the G.T.R. from Toronto to Hamilton Let 25.90 miles and event the to Hamilton Jct., 35.80 miles; and over the Canada Atlantic Ry. from Montreal and Ottawa Jct. to Ottawa, 0.90 miles; total, 36.70 miles. It has 35.70 miles of double track.

(10) The Central Ontario mileage includes the Marmora Ry. and Mining Co.'s line, formerly known as the Ontario, Belmont and Northern Ry., 9.60 miles.

(11) The Crow's Nest Southern Ry. is operated in the interests of the Great Northern Ry., U.S., connecting at the International boundary with a branch line from Jennings, Mont.

(12) The Dominion Atlantic Ry. mileage includes the Windsor and Annapolis Ry. 87.50 miles; Cornwallis Valley Ry., 14.00 miles; Yarmouth and Annapolis Ry., formerly the Western Counties Ry., 87.32 miles, and the Windsor branch, 32.00 miles, the latter of which is operated under lease from the Intercolonial Ry. It has also running powers over the Intercolonial Ry. from Windsor Jct. to Halifax, 14 miles.

(13) The Fredericton and St. Marys Ry. and Bridge Co. has running powers over the Canada Eastern Ry. for 0.17 miles. It has not made any return for the year, the figures quoted being for the year ended June 30, 1903.

(14) The G.T.R. mileage includes the following lines: G.T.R., 880.35 miles; Wharf branch, Montreal, 3.44 miles; Great Western Ry., 561.80 miles; Brantford, Norfolk and Port Burwell Ry., 34.39 miles; Buffalo and Lake Huron Ry., 162.00 miles; Grand Trunk, Georgian Bay and Lake Erie Ry., 172.62 miles; Owen Sound branch, 12.42 miles; London, Huron and Bruce Ry., 68.00 miles; Waterloo Jct. Ry., 10.25 miles.; South Nor-folk Ry, 17.00 miles; Wellington, Grey and Bruce Ry., 168.18 miles; Northern Ry., 172.10 miles; North Simcoe Ry., 33.00 miles; Hamilton and Northwestern Ry., 172.00 miles; Northern Pacific Junction Ry., 111.32 miles; Toronto Belt Line, 12.79 miles; Mid land Ry., 166.00 miles; Grand Junction Ry., land Ry., 166.00 miles; Grand Junction Ry., 82.51 miles; Toronto and Nipissing Ry., 85.00 miles; Lake Simcoe Junction Ry., 26.00 miles; Victoria Ry., 53.00 miles; Whitby, Port Perry and Lindsay Ry., 46.00 miles; Jacques Cartier Union Ry., 6.50 miles; Mon-treal and Champlain Ry., 61.73 miles; Beau-harnois Junction Ry., 19.50 miles. It has running powers over the Chaudiere branch of the Intercolonical Ry. 577 miles. It has of the Intercolonial Ry., 5.77 miles. It has 561.50 miles of double track.

(15) The Great Northern Ry. of Canada includes the Lower Laurentian Ry., and the Montreal and Gatineau Colonization Ry.

(16) The Halifax and Southwestern Ry. includes the old Nova Scotia Central Ry., and the Nova Scotia Southern Ry.

(17) The Hereford Ry. is operated by the Mainé Central Rd.

(18) The Kent Northern Ry. mileage does not include the St. Louis and Richibucto Ry., 7 miles, which is not now being operated.

(19) The Kettle River Valley Ry. also operates in the State of Washington, from the boundary to Republic, Wash.

(20) The Lake Erie and Detroit River Ry including the Erie and Huron Ry., is 199.41 miles in length; it also operates the Lon-don and Port Stanley Ry., 24.00 miles. The line is owned by the Pere Marquette Rd.

(21) The Massawippi Valley Ry. is leased to the Boston and Maine Rd., and has run-

ning powers over the G.T.R. from Lennoxville to Sherbrooke, Que., 2.95 miles.

(22) The Montreal and Atlantic Ry. includes the old Southeastern Ry., 103.00 miles; and the Lake Champlain and St. Lawrence Junction Ry., 60.50 miles. The first named has 5.50 miles of double track.

(23) The Montreal and Province and Montreal and Vermont Jct. lines and the Stanstead, Shefford and Chambly lines are leased by the Central Vermont Ry

(24) The Nelson and Fort Sheppard Ry. has running powers over the C.P.R. from Five Mile Point to Nelson, B.C., 4.70 miles. It is operated in the interests of the Great Northern Ry., U.S.

(25) The New Westminster Southern Ry., the Red Mountain, Vancouver, Victoria and Eastern Ry., Victoria and Sidney, and Victoria Terminal Ry. and Ferry Co. are operated by or in the interests of the Great Northern Ry., U.S.

(26) The Ottawa, Northern and Western Ry. returns are up to Oct. 31, 1903, on which date it was taken over by the C.P.R. under lease. It has running powers over the Hull Electric Ry., 2.50 miles. The mileage is included with that of the C.P.R. (27) The Quebec Central Ry. has running powers over the Intercolonial Ry. from Harlaka Jct. to Levis, Que., 5.00 miles.

(28) The Quebec, Montmorency and Charlevoix Ry, is operated as a steam and electric railway by the Quebec Ry., Light and Power Co. The returns given are for the operation by steam. It has 6.00 miles of double track.

(29) The Quebec Southern Ry. comprises the United Counties, the East Richelieu Valley, and the South Shore railways. It is being operated by a receiver, and no report of traffic for the year has been received, the figures given being those for 1902-03.

(30) The Rutland and Noyan Ry, is operated by the Rutland Rd., a U.S. company, and a report of its operations has not been received.

(31) The earnings of the St. Clair Tunnel are from tolls on vehicles hauled through the tunnel.

(32) The St. Lawrence and Adirondack Ry. has running powers over the G.T.R. from Valleyfield to Beauharnois, Que., 13.30 miles; and over the C.P.R. from Adirondack Jct. to Montreal, 8.70 miles. It is operated by the New York Central and Hudson River Rd.





APR., 1905.]

(33) The St. Mary's River Ry. is operated by the Alberta Ry. and Coal Co.

(34) The Toronto, Hamilton and Buffalo (35) The Toronto, Hamilton and Buffalo (35) The Toronto, Hamilton and Buffalo (35) The Toronto, Hamilton and Buffalo

(35) No returns for the year ended june 30, 1904, have been received from the follow-ing lines. The been received from the following lines: Hampton and St. Martin's Ry.; Lenora Brunswick Lehora, Mount Sicker Ry.; New Brunswick Coal and Ry. Co. The figures given are for the year ended June 30, 1903.

The totals given are not strictly accurate, s they include given are not strictly accurate. as they include returns for a number of lines for the vocation of the figures for the year ended June 30, 1903, the figures been received ind June 30, 1904, not having

been received in time to be included.

The Dominion Wire Rope Co., Ltd., held The Dominion Wire Rope Co., Ltd., new its 19th annual meeting in Montreal recently, when the following placed for the cur-When the following were elected for the cur-president and Managing Director, F. H. vear, This business was established in 1882, business was as the Dominion Wire Rope Works, by the late firm of Co. in the late firm of Cooper, Fairman & Co., in the treal, and was the present treal, and was taken over by the present company on its incorporation in 1886.

works are now at Lachine, where a modern lant turns out practically all varieties of Energy energy and iron wire ropes. Engineers' Club of Toronto. -- A suggestion

that the Club of Toronto. — A suggestion with the Club should amalgamate or affiliate was discussed in Society of Civil Engineers was the Canadian Society of Civil Engineers was discussed at a recent meeting, when members on the take a general vote of the The result of the members on the question. The result of the other recent meetings a paper on "The other recent meetings a paper on "The Present Condition of the Metrics" was read by Arthur Herrice D P Wolsey gave a Present Condition of the Metrics" was read by Arthur Harvey; R. P. Wolsey gave a kew Ontario in the Abitibi Valley was Speight. Business luncheons for the mem-Wednesday.

The Canadian Westinghouse Co. has issued booklets on its self-contained direct current the Westingmulti-polar generators, and the Westing-Nouse type N. transformers.

We are advised that the G.T.R. has placed n order with the data from and Steel an order with the Dominion Iron and Steel

Sydney, N.S., for 25,000 tons of steel rails to be delivered during 1905. The Continental Heat and Light Co., Mon-real, has a first the construction of the con

tran, has created a special department for of P. W. Richardson, formerly of New York. In the article headed Railways and Special In the article headed Railways and Special March issue, appearing on pg. 97 of our fith line from the word "exhaustive" in the should read "exhausted"

Following are the officers and directors of Montreal Wrant of for the cur-

Following are the officers and directors of rent year: President ware builded by the work of the cur-ident, W. M. Ramsay; other directors: J. W. ager and Secretary, G. H. Hanna. The Canadian Waetinghouse Co., Hamil-

The Canadian Westinghouse Co., Hamilton, Ont, has issued circulars respecting its Bi Polar Motors type K. Motors; Westinghouse Gin Char Motors type D. Oil Switches and

Westinghouse type K. Motors; Westinghouse Bi-Polar Motors, type R.; Oil Switches and dion when purchasing Series A.C. Arc Lamps. Babcock & Wittee Itd Montreal, have Babcock & Wilcox, Ltd., Montreal, have Babcock & Wilcox, Ltd., Montreal, have nipes, for the installation of two of their 250 heaters and chain grate automatic stokers. This is an addition to the power plant of the same two the system, in which five of the ty water works system, in which five of the installed some five y water-works system, in which five of the years ago. boiler were installed some five

RAILWAY DEVELOPMENT.

Projected Lines, Surveys, Construction, Betterments. Etc.

Algoma Central and Hudson Bay Ry.--In a recent interview at Toronto, F. H. Clergue is reported as having stated that the line would be completed to a junction with the main line of the C.P.R., and that the operations would be commenced at an early date and conducted with energy, and that assurances to that effect had been given to the Ontario Government. Enquiry of members of the Government fails to confirm this. We are advised the matter is under the consideration of the directors, and will be dealt with definitely in the near future. (Mar., pg. 89.)

Algoma Copper Range Ry.-R. D. Perry Toronto; F. M. Perry, Jno. McKay, Sault Ste. Marie, Ont.; G. Kemp, F. Perry, Sault Ste. Marie, Oilt, G. Keinp, F. Perly, Saut Ste. Marie, Mich., are the applicants at the current session of the Dominion Parliament for an act incorporating a company with this title, with a capital of \$500,000, and power to issue securities not exceeding \$25,000 a mile of railway constructed. The railway proposed will extend from Batchawana Bay, on Lake Superior, easterly to the Superior Copper Mines. thence easterly for about 120 miles to the C.P.R. transcontinental line be-tween Cartier and Biscotasing, Ont. (Mar., pg. 89.)

Athabasca and Northern Ry.-F. H. Markey, H. E. Smith, Montreal, J. K. Mackenzie, Selkirk, Man.; M. Burton, Barrie, Ont., and O. E. Fleming, Windsor, Ont., are applying at the current session of the Dominion Parliament for an act incorporating a company with this title, to construct a railway from Edmonton, northerly to Athabasca Landing, Alta. (Feb., pg. 45.)

Bessemer and Barry's Bay Ry.—A meeting of shareholders was held at Bessemer, Ont., Mar. 31, to authorize the issue of bonds to the extent of \$100,000 for the purpose of constructing the proposed railway, or such part thereof as may be agreed on, and to authorize the placing of a mortgage upon the company's property to secure the same. (Jan., pg. 9.)

Bruce Mines and Algoma Ry.—The On-tario Legislature will be asked at its current session to pass an act authorizing the construction of a line from the C.P.R. between Chapleau and Biscolasing stations on the C.P.R. transcontinental line, northerly to Hannah Bay, on Hudson's Bay. Power is also asked to operate steam and other vessels on waters opened up by the company's lines. The company has its line in operation from the shore of Lake Huron to Rock Lake, and is authorized to extend it from Rock Lake to the C.P.R. transcontinental line, near Biscotasing. (Aug., 1904, pg. 275.)

Canada Central Ry.-The Ontario Legislature will be asked at its current session for an act extending the time for the commencement and completion of this projected line. from the boundary of Quebec to the boundary of Manitoba. There is a Dominion charter covering the whole line from Quebec to the Pacific coast

Canadian Yukon Western Ry.—Applica-tion will be made by L. A. Herdt, C. Archer and R. Auzias-Turenne, of Dawson, Yukon, at the current session of the Dominion Parliament, for an act extending the time within which the projected line may be begun and completed, and rearranging its bonding pow-ers, etc. The company was incorporated in 1903, with power to construct a railway from Dawson to the International boundary through the Forty Mile district.

Cape Breton Coal, Iron and Ry. Co.-The report that Sir C. Rivers Wilson, President G.T.R., had acquired a controlling interest in this company is, we are officially informed,

J. F. Case, of Pittsburg, Pa., is in untrue. charge of the construction of the line. (Jan., pg. Ĭ1.)

Central Canada and Hudson Bay Ry.-Application will be made at the current session of the Ontario Legislature for an act incorporating a company with this title to construct a railway from Heron Bay, on Lake Superior, northerly and easterly to the Albany River, thence to Fort Albany on James Bay. Jas. B. O'Brian, Toronto, is solicitor for the applicants.

Central Vermont Ry.—An arrangement has been reached by which the C. V. Ry. will rebuild, as a standard gauge line, the narrow gauge line between Brattleboro and South Londonderry, Vt., 35 miles.

Detroit River Bridge.--Detroit papers state that it is definitely announced that the Michigan Central Rd. will construct a double tunnel under the Detroit River between Detroit, Mich., and Windsor, Ont., and that all the plans for the same are completed. A later report states that if the Michigan Central Rd. constructs such a tunnel, it is likely that the G.T.R., the C.P.R., the Wabash Rd. and the Pere Marquette Rd. will combine to construct a joint tunnel or bridge. (Mar., pg. 93.)

Edmonton, Yukon and Pacific Ry.-The Dominion Parliament is being asked at its current session for an extension of five years within which the company's authorized lines may be constructed. (Feb., pg. 49.)

Esquimalt and Nanaimo Ry.—The sale of the E. and N. Ry. to the C.P.R. has revived the prospects of the construction of additional lines on Vancouver Island. General Superintendent Marpole, of the C.P.R., stated recently at Vancouver, that as soon as the line was transferred the C.P.R. would make a general survey of the Island, with a view of finding out its resources and the possibility of opening it up more extensively by railways.

French River Ry.-Application will be made at the current session of the Ontario Legislature for an act incorporating a company with this title, with power to construct a railway, to be operated by steam, electricity or other motive power, or partly by steam and other motive power, from French River Harbor, on Georgian Bay, easterly to Cross Narrows, on the Pickerel River, then southeasterly to Kidds Landing, Magnetawan and Burk's Falls, Ont. Power is also asked to construct branch lines and to carry on a gen-eral navigation business. Lindsey, Law-rence & Wadsworth, Toronto, are solicitors for the applicants.

Haliburton, Whitney and Mattawa Ry .----Application will be made at the current session of the Ontario Legislature for an act extending the time for the commencement and completion of this projected line from Haliburton to Mattawa, Ont.

Halifax and Southwestern Ry.—A return presented Feb. 24 to the Nova Scotia Legislature showed that the plans for the line between Bristol and Sable River had been deposited Aug. 3, 1904, but had not been approved. There was a dispute between the company and the Government as to the proper place to construct the railway, in the interests of the road and the people of the country. A number of conferences had taken place between the company, its managers and engineers and the Government. and the Government had heard numerous delegations from the people of the locality. The plans for the line between Sable River and Barrington Passage were approved Sept. (Mar., pg. 93.) 13.

Hamilton to Galt.—Application will be made at the current session of the Ontario Legislature for an act incorporating a com-pany to construct a railway from Hamilton to Galt, Ont., passing through Ancaster,

West Flamboro, Beverly, Wentworth and North Dumfries townships. Barwick, Aylesworth, Wright & Moss, Toronto, are solicitors for the promoters.

Hermina Mining Co. (Ltd.)-Application will be made at the current session of the Ontario Legislature for an act authorizing the company to construct and operate a railway from Lake Huron northerly through the townships of Victoria, Salter, and Tennyson, Ont.

Intercolonial Ry.-The Minister of Railways and Canals, in referring to the estimates for the I.C.R. in the House of Commons recently, stated that the traffic would soon require a double track between Halifax, N.S., and Moncton, N.B. The line between Richmond and Rockingham, N.S., had been double-tracked, and the section between Rockingham and Bedford, N.S., was now under contract. A contract had also been let for double-tracking between Windsor Jct. and Bedford Bridge to R. McManus., The total expenditure for improvements at Halifax, N.S., was estimated at about \$1,000,000, of which about \$200,000 would be required this year for a number of improvements, including an engine house, new sheds, new tracks to the elevators and other works. The following sums have been voted, chargeable to capital:-

Original construction Strengthening bridges Double-tracking parts of line Additional sidings and spur lines. Semaphores at stations Improving grades on line. Increasing water supply. Steel rails and fastenings. 100,000 135,800 1,000 22.000 Increased accommodation, Stelarton. Increased accommodation, Sydney. Extension to Sydney Mines. Dredging and blasting rock at deep water terminus, Halifax. Increased accommodation, Halifax. New station at Windsor. Pictou. 380,000 23,200 50,000 18,000

200,000 11,000 30,000 57,500

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increased a	accommodat	ion, Antigonish	29,5
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"	44	St. John	33,00
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			25.
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	Campbe	ellton	7.
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(Mar., pg	r 03)		
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Irondale, Bancroft and Ottawa By. of the Ontario Legislature for an act extend



[APR., 1905.

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ing the time for the construction of the line ing the time for the construction of the line Creek to Renfrew, Ont.; and also authoriz-the junction with the G.T.R. near Kinmount, Lake summer and the second second second second second the second second

Lake Superior, Long Lake and Albany River Ry. The Ontario Legislature will be asked at its pass an act asted at its current session to pass an act authorizing the extension of time for the commenced railway commencement of this projected railway from Peninsula Harbor, on Lake Superior, to the Albara Directory of the capital to the Albany River; increasing the capital poses. \$5,000,000 and for other pur-

Flaberty, H. E. Knobel, Port Arthur, Ont.; at the current session of the Dominion Par-liament for an act incorporating a company iament for an act incorporating a company with this state with this title to construct a railway from Lake Superior to construct a railway for the ake Superior, following the valley of the Blende River to Lebonk mine, thence west-erly to the to Lebonk mine, thence westerly to the south shore of Loon Lake, Ont. Power is asked to sell the line to or amalga-der Bay, Nepigon and St. Joe Ry. (Feb.,

Midland Terminal By.—The Ontario Legisat act art at its current session for an act extending the time for the commence-ment and complete at this projected railment and completion of this projected rail-Canniff, Toronto, is solicitor for the com-

New Ontario Ry.—Application will be made at the current session of the Ontario Legislature for an act continuing in force the act incorporating the N.O.Ry. Co., and extending the time for the commencement The completion of its projected railway. The completion of its projected railway. Way from Devise power to construct a railway from Dryden, on the C.P.R. transcon-tinental line to operate it inental line, to Lac Seul, and to operate it by steam or electricity

Nicola, Kamloops and Similkameen Coal ad Ry Co. The State Similkameen the and Ry. Co.—The controlling interest in the company to the hands of and Ry. Co. The controlling interest in the company recently passed into the hands of directorate consisting of C. E. Loss, New H. S. Osler, W. B. Raymond, B. M. Osler, which were owned by the original company, which were owned by the original company, still remain wire by the original company, still remain in the old company's hands, and R. Larkin as President, and W. S. McNamara Secretary to devolve the coal fields, so as Secretary, to develop the coal fields, so to be read to develop the coal fields, so as becretary, to develop the coal fields, so as to be ready to ship coal as soon as the will construct the collinear expects to make will construct the railway expects to make a start at out the railway expects the legisa start at construct the railway expects to man-lation, now better the railway expects to man-lation, now better the railway expects to manastart at construction as soon as the legis-has been obtained. The extended powers company to construct a line to Grand Forks, company to construct a line to Grand Forks, B.C., where construct a line to made with B.C. where a connection will be made with the Vancouver, Victoria and Eastern Ry. Columbia and Western Ry. (C.P.R.) at (Ian pr. 12)

Midway. (Jan., pg. 13.) Ottawa Valley Ry. The application to ettend the line from St. Andrew's, Que., via

Outawa the line from St. Andrew's, Que., Via thrown out by the Railway Committee of as to Publication of potices not having been As to publication of notices not having been fully complied with. (Feb., pg. 51.)

Penetanguishene to Udney.—Application ontario Legislature for an act incorporating tangunany to construct a railway from Penea company to construct a railway from Pene-^a Company to construct a railway from Pene-tanguishene, through the townships of Tay to Brechin, Ont, North Orillia, South Orillia, towns of Midland and Orillia. Royce & Hen-motor, Toronto, are solicitors for the proderson, Midland and Orillia. Royce & rem noters, Toronto, are solicitors for the pro-

Prince Edward Island Ry.--- A vote for \$650,000 for the Murray Harbor branch has been passed by the House of Commons. branch was projected in 1898, when it was estimated that the cost would be \$472,000. Up to Nov. 30, 1904, the line had cost \$870, 121, and it is now estimated that the total cost will be \$1,031,000. The original con-tract with W. Kitchen was for 11 miles, but he was given the construction of the rest of the line at the same prices. The bridge across the Hillsboro River was originally estimated to cost \$800,000, but owing to changes in the plans, adopted on the recom-mendation of the engineers, the cost of the work when completed will be \$1,474,000. (Mar., pg. 94.)

Quebec Bridge and Ry. Co.-C. Schrieber, Deputy Minister of Railways and Canals, accompanied by the members of the Trans-continental Ry. Commission, recently visited Quebec, and inspected the progress of work on the bridge. It was reported that the shipment of steel for the bridge would be commenced by the end of March, the material in stock at the works in Pennsylvania being sufficient to fill about 700 cars. (Mar., pg. 95.)

Rouse's Point to St. Constant, Que.-- A press report states that the Delaware and Hudson Co. proposes to construct a line from the International boundary at Rouse's Point, N.Y., to St. Constant, Que., under an old charter, which it controls.

Salmon River and Northern Ry.--Application will be made next session of the Quebec Legislature for an act incorporating a company with this title to construct a railway from the Ottawa River to a junction with the Grand Trunk Pacific Ry., near the La Lievre River, Que. (Mar., pg. 95.)

Saskatchewan Bridge Co.—C. M. Hays, M. Hays, J. A. Mark, J. Hobson, W. W. Wainwright, H. A. Allan, J. Hobson, W. H. Biggar, H. A. Wood, H. Phillips, Mon-treal; F. Oliver, K. W. Mackenzie, Edmonton, Alta., are applying at the current session of the Dominion Parliament for an act incorporating a company with this title to construct a railway and general traffic bridge across the Saskatchewan River between (Mar., Strathcona and Edmonton, Alta. pg. 95.)

Temiskaming and Northern Ontario Ry.-The construction of this line, heretofore in charge of a commission consisting of R. Jaffray (chairman); B. W. Folger, Kingston, Ont.; F. Leonard, London, Ont., and M. J. Ont.; F. Leonard, London, Ont., and M. J. O'Brien, Renfrew, Ont., will in future be in O brien, Kenfrew, Ont., will in future be in charge of a commission of three, consisting of C. B. Smith, C.E., Toronto; D. Murphy, Ottawa; J. L. Englehart, Petrolea, Ont. C. B. Smith has been appointed chairman. Hon. J. P. Whitney, the premier, states that it has been decided by the Government to proceed with the work and carry it through the completion. (Mar. pp. 95.) to completion. (Mar., pg. 95.)

Vancouver, Victoria and Eastern Ry. The extension from Grand Forks to Phœnix, B.C., was inspected by W. McCarthy, Dominion Government Inspecting Engineer, at the end of Feb., and a passenger train service was placed in operation Mar. 5. (Mar., pg. 95.)

Yukon Trust and Loan Co.-Application will be made at the current session of the Quebec Legislature for an act incorporating a company with this title to construct tramways and other works in the Yukon Territory, in connection with a real estate and loan business. Beaubién and Lamarche, Montreal, are solicitors for the applicants.

The Locomotive and Machine Co. of Montreal has received orders for a large amount of bridge work for the C.P.R. It has also in hand contracts for the steel work for the new post office at Winnipeg; the Royal Victoria Museum and the Dominion Mint at Ottawa.

Orders by the Railway Commissioners.

The following orders have been issued by the Board of Railway Commissioners:

Approving of plans for the crossing of the Algoma Central and Hudson Bay Ry. under the tracks of the C.P.R. in Sault Ste. Marie, Ont. (Feb. 9.)

Sanctioning change in the location of the located line of the extension of the Alberta Ry. and Irrigation Co.'s line between mileage 13 and mileage 17. (Feb. 13.)

Authorizing the construction of a spur line from Spragge station on the C.P.R. Sault Ste. Marie line, for a distance of 1,347 ft. (Feb. 14.)

Granting permission to the Toronto City Council to extend Wallace Avenue across the tracks of the G.T.R., northern division, the city to provide whatever protection may be required for the crossing, and to consent to the laying of an additional track or tracks by the G.T.R. across the street should such be necessary. (Feb. 18.) Approving of an extension of time fixed in

the order of Dec. 19, 1904, for the use by the Canadian Northern Ry. of its crossing of the C.P.R. tracks at Emerson, Man. (Feb. 20.)

Granting permission to the Berlin, Ont., Light Commissioners to lay a gas main under the G.T.R. tracks in that city. (Feb. 20.) Extending to Dec. 31, 1905, the time for

the use by the Vancouver, Westminster and Yukon Ry. of a crossing of the British Columbia Electric Ry. at Park Ave., Vancouver, B.C. (Mar. 1.)

Granting permission to the Consumers' Gas Co., of Toronto, to lay a gas main under the G.T.R. tracks near Jones Ave., Toronto. (Mar. 2.)

Authorizing the construction of a bridge across the Blackstone River, at a point 10 miles from Parry Sound, Ont., by the James Bay Ry. (Mar. 2.)

Sanctioning a change in the location of the Quebec, New Brunswick and Nova Scotia Ry, through Portneuf county, Que., between mileage 15.6 and mileage 57.4. (Mar. 2.) Authorizing the town of Rat Portage, Ont.,

to construct a bridge over the tracks of the C.P.R. at Julius St., Rat Portage. (Mar. 2.)

C.P.R. at Junus St., Rat Portage. (Mar. 2.) Sanctioning a change in the location of the Canadian Northern Ry. through township 10, ranges 15, 16, 17 and 18, west of the principal meridian, Manitoba, to a junction with the Northern Pacific and Manitoba Ry., near Brandon, Man., between mileage 51.35 and mileage 76.90. (Mar. 2.)

Authorizing the crossing of the G.T.R. tracks at Milverton, Ont., by the Guelph and Goderich Ry., by an overhead bridge. (Mar. 6.)

Approving of a rail level farm crossing of the Canada Southern Ry. at Brigden, Ont., on terms set out in an agreement between G.

Miller and the company. (Mar. 7.) Authorizing the laying of a sewer under the C.P.R., the G.T.R. and the Toronto Belt Line Ry. tracks at Eastern Avenue, Toronto. (Mar. 10.)

Sanctioning a change in the location of the Tillsonburg, Lake Erie and Pacific Ry., from Wonham Road to the northern boundary of Ingersoll, Ont. (Mar. 11.)

A bill has been laid before the Senate providing that senators and members of the House of Commons shall be provided with a form provided by the clerk of each house, the production of which shall be accepted by railway conductors in lieu of the production of a pass. Under the terms of the Railway Act senators and members of the House of Commons are entitled to passes from all the railways in Canada, and the promoter of the bill evidently wants to be dead-headed without having to take the trouble to sort over his bundle of passes to find the one for the particular line he may be travelling over.

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New Union Station for Toronto

The Board of Railway Commissioners made an order, dated Feb. 23, with respect to the application of the G.T.R. for authority to expropriate certain lands, additional to those it now occupies, lying north of Esplanade St. and between Yonge and York streets, Toronto, and required for the purposes of the company. The following parties were interested in the application and appeared before the Board by counsel at the different hearings: G.T.R., C.P.R., James Bay Ry., Toronto City Council, W. W. Baldwin Estate, Eckardt Co., A. R. Williams, M. McLaughlin, Land Security Co., Dominion Transport Co., Toronto General Trusts Corporation, J. B. Smith Estate, H. W. Petrie Co., and the own-





ers of the Walker House. From the facts Laid before the Board it appeared that the $G \uparrow p$ G.T.R. requires for the convenient accommoda-tion of the requires for the convenient accommodation of the public and the traffic on the railway more ample space than it now possesses, or mint. or might take under section 138 of the Rail-way Art way Act, and authority was given to expropriate the lands mentioned, subject to certain conditions set out in the order.

The lands to be expropriated are specifically set out in the order, which reserves to the public set out in the order, which reserves to the **are non** portions of the lands named as are now enjoyed as public highways. It then recites that the lands taken are to be used only for that the lands taken are to be used only for a passenger station, and passenser station yard therefor, and for such purposes as are necessarily or usually connected therewith. The lands and the buildings to be erected. The lands and the buildings to be erected thereon shall be a union passenser station, and shall be available for use by all steam railways which now enter the city or may be seen and condior may hereafter do so; the terms and condi-tions of a so the terms and condii may hereafter do so; the terms and come tions of such use shall be settled by the of by the propanies interested and approved of by the Board; and if a dispute shall arise between the same between the companies as to terms the some shall be determined of the Board. shall be determined by order of the Board.

The amount to be expended on the building and its appur-tenances chall be at least \$1,000. tenances shall be at least \$1,000,-000; construction work shall be commenced within a year, and completed within three years, the Board completed within three years the Board reserving power to extend the term should it be necessary so to do. The plans are to be disputes between the companies, or between the companies, between the G.T.R. and the city with regard to plans, to be determined by the Board. The G.T.R. shall make provision in Getermined by the Board. Ine G.T.R. shall make provision in the present Union Station and yards for the passenger trains and traffic of the James Bay Ry., as soon as processry until the as soon as necessary, until the Union Station is completed and ready for use, on terms to be agreed upon. The value of the land is to be provided by the land is to be ascertained by arbitrators as at the date of the and 5%notice to expropriate, and 5%date. In the paid from that date. In connection with the date. In connection with the Construction of the station the across York St., York St. diver-sion, Bay St., York St. diver-Esplanade St., Such number of are to be approved by the Board, which also n., impose conditions. If the company closes

May impose conditions. If the company closes Bay St., south of Front St., a bridge shall be erected by the front St., a bridge shall for foot protection of Front St., a bridge snam for foot protection for foot protection of the closing of Station St., and the placing of tracks thereon was reserved.

The Eckardt Co. appealed to the Privy

Council and the sub-committee, appointed arguments and **consider** the sub-committee, appointed reserved judgment. A despatch from Ottawa, have March on stated that the appeal had dated March 20, stated that the appeal had been dismissed.

C.T.R.

The astreament between the city and the City was the City G.T.R. "sreement between the city and the Counci, was formally ratified by the City the new, Mar. 13. It has been decided that ground station will be placed on the plot of lying between Bay and York streets, and set From the street line a distance of 25 ft. Front St., fronting on On thom the street line a distance of 25 II. From the east side of Bay St., fronting on postal distributing station, and this building line with the proposed new station. line with the proposed new station.

Capt. John Malcolmson of the Welland House, St. Catharines, Ont., has been appointed chief steward of the R. & O. Co.'s str. Kingston.

Railway Equipment Notes.

Among the liabilities of the Dominion Coal Co. is included Dominion Rolling Stock debentures, \$298,559.47.

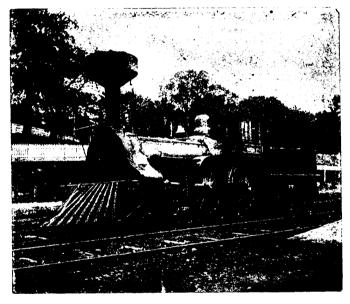
The Winnipeg City Council has asked tenders for five gondola hopper cars for use on its line to the city quarries.

The Intercolonial Ry, has not placed any orders for equipment since Dec. 15, 1904, and is not in the market for any at the present time.

The G.T.R. has recently added to its equipment two ro-wheel passenger locomotives from the Locomotive and Machine Co.'s works. Montreal.

We are advised that the Great Northern Ry. of Canada is not at the present time in the market for any passenger equipment, as recent press despatches stated.

The Pere Marquette Rd, has placed orders for 70 locomotives, the distribution of which on the different lines has not yet been determined. Seven of the locomotives have been delivered at St. Thomas, and others are expected.



CARILLON AND GRENVILLE RAILWAY LOCOMOTIVE.

The Crossen Car Manufacturing Co., Cobourg, Ont., and the Rhodes, Curry & Co., Amherst, N.S., have each received an order for 200 standard 30-ton box cars, which will be distributed to the various Mackenzie, Mann & Co. lines as conditions warrant.

The Dominion Parliament has voted \$698,-500 for additional rolling stock, \$25,000 for applying air brakes to freight cars, \$46,000 to exchange draw-bars of freight cars, \$92,000 for new machinery for locomotive and car shops, and \$6,000 for a new track pile driver, for the Intercolonial Ry, to be charged to capital account.

The applications of the Canada Car Co. and the Goodwin Car Co. at the current session of the Dominion Parliament for acts to extend the time within which they may import wheels and other portions of cars, covered by a number of patents, until 1907, and setting forth that the want of construction in Canada within that period shall not invalidate the patents, have been withdrawn.

The Intercolonial Ry. added to its equipment recently 157 platform cars, 60,000 lbs. capacity; 82 hopper cars, 30,000 lbs. capacity; 8 box cars, 60,000 lbs. eapacity, from Rhodes, Curry & Co., Amherst, N.S.; seven consolida-tion freight locomotives from the Canadian Locomotive Co., Kingston, Ont. The loco-

motives are increased equipment, and the cars are to replace an equal number which had been condemned.

The 3,000 box cars which the C.P.R. is about to build at its Angus shops, Montreal, will be of 60,000 lbs. capacity, M.C.B. stand-ard dimensions, and will be equipped with Westinghouse air-brakes, Simplex trucks, with inside brake-beams and Susemihl roller side bearings. It will only be necessary to build 1,677 trucks for these cars, as the com-pany now has 1,323 trucks for 30-ton cars on car bodies having a 40-ton capacity. These 30-ton trucks will be transferred to the 30-ton car bodies to be built, and 1,323 new trucks for 40-ton cars will be built and placed under the cars now running on 30-ton trucks.

At the annual meeting of Rhodes, Curry & Co., Ltd., held at Amherst, N.S., Mar. 1, a dividend of 6% on the new stock was declared. The report showed the volume of business for 1904 to have been \$2,300,000, the receipts for the construction of cars being \$1,400,000. The number of cars built was 1,600. It was stated that the company has already booked

orders for cars to be constructed during the current year to the value of over \$1,000,000. J. R. Douglas was elected a director to succeed the late J. M. Townsend, K.C., and B. F. Pearson, of Halifax, N.S., and Senator Mitchell, of Drummondville, Que., were added to the directorate. The officers and directors for the current year are: President, N. Curry; Vice-President, N. A. Rhodes; other directors: C. T. Hillson; Senator urrectors: C. T. Hillson; Senator Black, J. R. Douglas, Senator Mitchell, B. F. Pearson, J. C. Robertson. Secretary and Treas-urer, J. M. Curry; Solicitor, E. M. Rhodes.

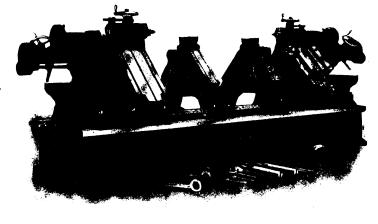
The Lima Locomotive and Machine Co. is building for the Holly River and Addison Ry. a 10-wheel locomotive, cylinders 13 in. diame-ter, 18 in. stroke. It is also building a double end locomotive, with separate tender, for the Crowell and Spencer Lumber Co., Long Leaf, La. This locomotive has cylinders 15 in. diameter, 20 in. stroke, and will be equipped with the Lima Locomotive and Machine Co.'s own make of steam brake. This locomotive, as well as the one

for the Holly River and Addison Ry., will be The comfurnished with all modern fittings. pany also has orders on its books for a 12 x 16 in. cylinder four driver saddle tank, for the Puget Sound Navy Yard at Bremer, Wash., and a small mine locomotive for the Margaret Mining Co., Welsh, W. Va. The company reports business good in its geared locomotive department, and has recently shipped a number of plantation type loco-motives to Mexico. Orders are coming in rapidly, and it is running its shops full time, night and day force, and the outlook for the current year's business is most promising.

The Temiskaming and Northern Ontario Ry. has placed orders with the Canadian Locomotive Co., Kingston, Ont., for four additional locomotives. Following are the specifications for two of them:-

- rype or e	engine				io wheel
Fuel use	d			В	ituminous coal
Weight i	n work	ing order	driver		107,000 lbs.
		ing oraci,	unicia	•••••	107,000 108.
			total.		
Wheel ba	ase of e	engine, rig	id		12 ft. 6 ins.
		ii to	al		22 ft. 6 ins.
			d tanda	-	fr 63/ in
Length a	over all	, engine a	nd tend	•r	
w iain		**			
Height					raft ak in.
Heating	surfac	e. firebox		•••••	14 ft. 31/4 in. 155 sq. ft.
"		tubes			1,536 sq. ft.
		total			r for sa. ft.
Grate ar	ca				
Diamete	r of dri	ving whe	10		th ins.

BERTRAM QUARTERING MACHINE



With Outboard Support for Boring Spindle^{\$} and Removable Rest for Turning Crank Pins.

This 90" Quartering Machine is designed for quartering and boring crank pin holes in locomotive driving wheels having right hand lead and wheels having left hand lead up to 85" in diameter on the tread. The boring spindles have 15" travel and two changes of power and rapid hand movement. The saddles are graduated and have angular adjustment for any length of stroke from 12" to 36". The axles are held on their centres and supported by adjustable V bear-ings, the wheels being clamped to the side of the frame. Each head is arranged to be driven by a 5 H.P. electric motor.

The JOHN BERTRAM & SONS CO., Limited Dundas, Ontario, Canada

JAS. W. PYKE & COMPANY CANADIAN REPRESENTATIVES

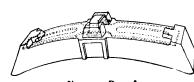
FRIED. KRUPP, ESSEN, GERMANY.

Steel Rails.

Wrought Iron Steel-Tyred Disc Wheels Locomotive and Car Wheel Tyres. Axles, Crank Pins, Forgings, Etc.

FOR STEAM AND ELECTRIC RAILWAYS.

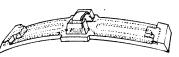
OFFICE: MERCHANTS BANK BUILDING MONTREAL. 205 ST. JAMES STREET,



New, 25 Pounds

STEEL BACK CAR BRAKE SHOE

Can be applied to any type of shoe. The Steel Back doubles the life of the shoe.



Scrap, 5 Pounds

Steel Back Brake Shoe

ONLY SAFE SHOE FOR HIGH SPEED BRAKES

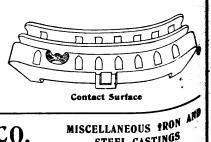
More dense and durable than common Cast Iron



SERVICE

Back View

PERFECTO DRIVER BRAKE SHOE



STEEL CASTINGS

AMERICAN BRAKE SHOE & FOUNDRY CO. N. J. HOLDEN, Agent, 18 ST. PETER ST., MONTREAL [APR., 1905.

tial of driving

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and laws	cast iron, double plate
Diameter of wheel. Diameter and langet	cast iron, double plate

The specifications of the other two loco-Lie specifications of the other two loco-motives are similar in every respect, except will be 111,000 lbs., and the total weight, The t

The locomotive of which an illustration is The locomotive of which an illustration is siven on page 147, is probably the oldest in carillon and Grenville Ry., a 5 ft. 6 in. navigation operated during the season of Co. between Carillon and Grenville, Que., 13 miles, to connect the upper and lower the operation on the Ottawa River. The locomotive was built at Birkenhead, The locomotive was built at Birkenhead, Bug, for the G.T.R. in 1857, and has been but slightly closed in general appearance ing, for the G.T.R. in 1857, and has been since then. J. E. Halsey, General Superin-the following description:—"The cylinders tendent of the line at Carillon, has supplied the following description:—"The cylinders are inclined up 15 in. diameter by 20 in. the old-fashioned D pattern, inside smoke as it were with their backs facing each other. They are connected direct to the pulling link. They are connected direct to the pulling link. The link on this engine does not lift; the Pulling link : this engine does not lift; the pulling link on this engine does not not, the and as the short method with block moves and as the shaft reverses the link block moves up and down in the Chables a good steady and as the shaft reverses the link block moves up and down in link. She has a good steady valve gear, as the link is supported on both nent shaft. The boiler is 48 in. diameter fues 17 in. diameter to ft 6 in. long; fire flues 17 in. diameter, 10 ft. 6 in. long; fire The fire box and boiler are both made of Low Moor iron: fur cheet 1 in. thick; fire Low here box and boiler are both made of box sheets $\frac{1}{2}$ in. thick; fire is 7 ft. total. thick. The rigid wheel base tender is 17 ft. total length of engine 21 ft. The tender is 17 ft. 6 in.; total length of engine 21 11. And and tender is 6 ft. 6 in.; total length of engine The diameter of and tender 38 ft. 6 in.; total length of engine driving wheels is 60 in.; truck of the bogie type, with 66 in. The diameter is a type, with 26 in. wheels. This engine is a and can go a steady speed of 30 miles an hour,"

The Intercolonial Ry. has been awarded a Louisiana Purchase Exposition last year.

The Supreme Court of Canada has rendered a decision on the questions submitted to it by the Dominion Government, as to the pective power of the decision and the respective powers of the Dominion and the respective powers of the Dominion and the Provinces in the matter of legislation for the better observation of Sunday. The court provinces to pass acts similar to the terms undistinguishable from that which the Im-against in the case of the Hamilton Street Ry. The Privy Council had already pronounced act as was brought before its notice was ultra Ry. The Privy Council held that such an act as was brought before its notice was ultra court added that Provincial Legislature. The object the compulsory observance of Sunday, usual sanctions) to be followed on that day, of the Dominion Parliament. of the Dominion Parliament.

C.P.R. Earnings, Expenses, Etc.

Gross earnings, working expenses, net profits, increases or decreases over 1903-04, from July 1, 1904:

	Earnings.	Expenses.	Net Profits.	Decrease.
	\$4,398,833.95	\$2.949, 181.81 \$		
	• 4 474,237.64		1,527,930.43	93.82 .93+
	4,743.961.93		1,268,807.56 1,566,113.91	66,541.75+ 87,913,10-
	4.751.970.43		1,669,574.74	191,593.56+
	. 4,562,142.45		1,662,668.83	81,523.57+
Jan.	3,252.501.93	2,829.833,46	422,668.47	65.016 44 🕂

\$30,404,524.36 \$20,837,108,28 \$9.567,416.08 \$541,715.17+ Approximate earnings for Feb., \$3,022,000 against \$2,506,000, for Feb., 1904.

DULUTH, SOUTH SHORE AND ATLANTIC RY.—Gross earnings for Jan., \$199,901.29; net earnings, \$59,235,32against \$178,356.22 gross and \$44,316.07 net for Jan., 1904. Net earnings for seven months ended Jan. 31, 1905. \$529,168.09, against \$508,089,73, for same period 1903-04. Approximate earnings for Feb. \$183,736 against \$165,780 for Feb., 1904.

MINERAL RANGE Ry.—Approximate earnings for Feb., \$52.241, against \$46,051 for Feb., 1904.

\$53.341, against \$40.051 for Feb., 1904. MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RY.-Gross earnings for Jan., \$662.827.76; net earnings \$355,403.79 against \$307,423.97 gross and \$181,023,42net for Jan., 1904. Net earnings for seven months ended Jan. 31, 1905, \$2.771.763.51 against \$2.308,651.67 for same period 1905-04. Approximate earnings for Feb., \$520.199, against \$402,007 for Feb., 1904.

Canadian	Pacific	Railwav	Land	Sales.
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Ac	cres	– Am	ount.
1904-05	1903-04	1904-05	1903-04
July 36,425.75	267,647.32	\$177.473.94	\$1,020,404.70
Aug 15,669.90	263,339.45	88,735.88	1,217.529,81
Sept 16,470.02	60,441.12	73,642.96	268.757.99
Oct. 23,792.84	15.950.07	104,843.47	236 611.59
Nov., 23,392,84	22,563.95	112,261.70	107.364.21
Dec 32, 196.59	30, 146.00	142,583.40	125.676.00
Jan34,500 41	116,840.78	141,750.50	386,649.88
Feb 27, 503. 56	14,729.69	1 16, 278, 76	73.428 94
209,951.91	791,659.38	\$957,570.61	\$3.490.424.12

Grand Trunk Ry. Earnings, Expenses.&c.

The following statement of earnings, supplied from the Montreal office, includes the G.T. of Canada, the G.T. Western, and the Detroit, Grand Haven & Mil-waukee Rys.¹

Jan Feb	1905. \$2.556,340 2,163,683	1904 . \$2, 253, 378 1,649, 525	Increase. \$302,962 514,158	
	\$4,720,023	\$3,902,903	\$817,120	····
	GRAND 3	TRUNK RY	. со.	
Revenue f	or Jan.:			

	1905.	1904. 11	icrease. De	crease.
Gross receipts Working expenses	£412,000			
working expenses	321,000	317,000	4,000	••••
Net profit	£91,000	£38,300	£52,700	
GRAND TI	RUNK V	VESTERN	RY. CO.	
Revenue for Jan	:			

	1905.			Decrease.
Gross receipts.	£ 87,000	£ 83,500		
Working exp'ses	77,400	77,000	400	

Net profit	£9,600	£6,500	£3,100	
PTROIT GRAN		N & MIT	WAILER	DV CO

DETROIT, GRAND	HAVEN &	MILWAUKEE	RY. CO
Revenue for Jan .:			

	1905.	1904.	Increase.	Decrease.
Gross receipts Working expenses	£26,100 18,000	£24,100 16,600	£2,000 1,400	••••
Net profit	£ 8,100	£ 7.500	£ 600	·····

TRAFFIC RECEIPTS OF THE SYSTEM. The following figures relate to the individual lines, and are made out in sterling:

Aggregate from Jan. 1 to Feb. 28:

	1905.			Decrease,
Grand Trunk	£762,699	£616,276	£146,423	
G. T. Western	162,276	145.792		
D. G. H. & M.	44.894	39.899	4,995	· • • ·
Total	£969,869	£801,967	£167.902	····

The C.P.R. and the G.T.R. have asked Toronto wholesale merchants to confer together and agree upon an arrangement whereby they would bring all their shipments of goods from Great Britain by way of one (r other of the systems, with a view of benefiting the steamer lines trading to Canada.

Canadian Northern Ry. Construction.

Winnipeg Terminals .--- The Manitoba Legislature last session passed an act guaranteeing bonds to the extent of \$1,000,000 to provide for the construction of adequate terminals in Winnipeg, Man. The present terminal facilities in Winnipeg are those formerly used by the old Northern Pacific and Manitoba Ry., and have been regarded as being only temporary, pending the completion of arrangements for the construction of a new station and yards. In connection with its plans the company has secured Fort Garry Park, and has arranged with the city council for the closing of Broadway from Main St. to the Red River. The probability is that the new station will be erected on Broadway at Main St., and that there will be an hotel in connection with The plans involve the construction of a double-track bridge over the Assiniboine River, and a line to connect the terminals with the branch to Oak Point. The package freight sheds will remain as at present, at Water St., the larger freight being handled at the Fort Rouge yards. The plans, how-ever, are not yet finally completed, and nothing definite can be said as to when con-struction will be proceeded with, though it is likely to be started in the spring.

Branch Line Construction.-An act was passed at the recent session of the Manitoba Legislature guaranteeing the company's bonds at the rate of \$10,000 a mile for the construction of 189 miles of branch lines in the province as follows:

From Carberry to Brandon, thence generally westerly to the westerly boundary of the province, about 100 miles.

From near Winnipeg generally easterly for 25 miles.

From some point on the last mentioned line northerly to Bird's Hill, about 7 miles.

From between Winnipeg and Oak Point, crossing the Assiniboine River and connect-

ing with the company's line between St. Charles and Winnipeg, about seven miles. From the present terminus of the line running east from Emerson easterly to con-nect with the main line from Port Arthur to Winnipeg, between Woodridge and Sprague, about 50 miles.

Oak Point Branch .- This line at present has its southern terminus on the C.P.R. main line about 3 miles west of Main St., Winnipeg. It is intended to extend the line south, across the Assiniboine River, and to connect it with the old Northern Pacific Ry. line to Portage la Prairie, which is now part of the C.N.R. main line.

Grand View Extension.-The first C.N.R. train crossed the North Saskatchewan River, Feb. 17, and tracklaying is being pushed towards Battleford.

Prince Albert Extension .- The Board of Railway Commissioners has approved of the plans for the construction of a bridge across the South Saskatchewan River. The point of crossing is in sec. 5, tp. 47a, range 25, west of the second principal meridian, about 15 miles east of Prince Albert. The bridge will consist of six steel deck spans, each 180 ft. long, with about 600 ft. of trestle approaches. The piers will be of concrete, faced with steel plate. The height from low water to the top of the piers will be 48 ft.; and to base of rail, 85 ft. The contract for the erection of the piers and abutments has been let to J. Gunn & Sons, Winnipeg, Man.

New Branch Lines in Alberta and Assiniboia. -The C. N. Ry. is applying at the current session of the Dominion Parliament for an session of the Dominion Parliament for an act authorizing the construction of the fol-lowing railways: From Regina, Assa., to the Red Deer River, Alta., with a branch west of the Saskatchewan River to tp. 45, range 4, west of the third meridian; from Regina to Humboldt, thence via the Carrot River to



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Pas Mission, on the Saskatchewan River; from near Humboldt to a point near the crossing River by crossing of the Saskatchewan River by the company's Prince Albert branch; and from some point on the main line under construction west of Battleford, into Battleford. Securities to the extent of \$20,000 a mile may be insured in the extent of the conmay be issued in connection with the construction of these branch lines.

C.P.R. Betterments, Construction, Etc.

Atlantic Division.—The whole of the main ine having been relaid with heavy steel rails, it is many been relaid with heavy steel rails, steel on the branch lines, and a commence-ment will be made by relaying the Carleton ment will be made by relaying the Carleton branch for the made by relaying the Carleton branch from Bay Shore yard to Sand Point, St. John Bay Shore yard to Sand Point, St. John, N.B. A number of new steel rebuilding of those on the main line. Some reducing gradients and eliminating curvature; reducing gradients and eliminating curvature; new sidimation at various new sidings gradients and eliminating curvature, new sidings will be constructed at various the line, particularly on the Moosehead, Brownville and St. John sections.

Eastern Division Improvements.—A press a new sites that it is proposed to construct **New** piece of line to follow the valley of the St. Francis River, passing about a mile east of East Anome rowards the north up of East Angus, going towards the north up to the towards, going towards the north up to the township of Bury and passing through Gould and Stornoway before reaching Lake Megantic. This would give a better line than is than is now operated over between Lennox-the and Megantic, Que. We are advised that the report is premature.

Place Viger Yards Extension. -- A settle-Place Viger Yards Extension.—A settle-ment has been arrived at between the C.P.R. and the owners of some of the properties Place Viger yards, Montreal, and the matter is again being considered by the city council. Northern C.

Northern Colonization By.—A further extension of this line is in contemplation, the proposal taken proposal being to construct from the present at Nomininque to Rapide de

l'Original at Nomininque to ...

Ottawa, Northern and Western Ry,-The company's application for an extension of five years for the construction of the probroke and attend Shawville towards Pemroke and other points on the upper Ottawa River, has been approved by the Railway Committee of the House of Commons.

A New Don Valley Line.—The C.P.R. has valley in Toronto, for the purpose of serving Board of Control has desided to oppose the Board of Control has decided to oppose the trong the being conconstruction of Control has decided to oppose unsidered that if undertaken at all it should be owned by the city.

Toronto-Sudbury Line.—The section of this Toronto-Sudbury Line.—The section of this line now under construction is from Romford Byng Inlet, about 60 miles, and considerable rock work to be done blasting operations have been carried on all winter. There will be a number of the line, the largest of which will be to the line, the largest $R_{iver.}$ The number of bridges on the line, the largest River. The number of 1%, The maximum gradient is 3 of 1 %, or about 16 ft. to the mile. The contractors are Foley Bros

Guelph and Goderich Ry.—The grading for is line from Orientic Codorich. Ont., 80 this line from Guelph to Goderich, Ont., 80 miles, is reported to be practically commiles, is reported to be practically com-early in the second will be commenced

Fort William to Kaministikwia River.-We e advised that the question of

are advised that although the question of Kaministikwia a line from Fort William to the Kaministikwic Discourse the Kakabeka Kaministikwia River near the Kakabeka Falls has been discussed, no decision has been

reached as to whether or not anything will be done.

Otterburn to Stuartburn.-Application is being made at the current session of the Dominion Parliament for an act extending the time for the construction of a line from Otterburn on the Emerson branch, southeasterly to Stuartburn.

Winnipeg Station .- The office buildings at the new station were expected to be com-pleted by the end of March, and that the staffs of the various departments would take possession immediately the whole building was completed.

Manitoba Branches .- The C.P.R. is applying at the current session of the Dominion Parliament for an act extending for five years the time within which it may complete the construction of the branch lines authorized by its act of 1900. These include a number of branch lines in Manitoba, which have been partially constructed. A deputation from Lauder, Man., attended before the Railway Committee of the House of Commons and opposed the granting of any further extension of the branch from Napinka.

Reston-Wolseley Line.—In reference to the proposed branch line from Reston, Man., to Wolseley, Assa., we are informed that it has not been definitely decided whether it will be built this year or not.

Darlingford to Kaleida.—A line from Dar-lingford, on the Pembina Mountain branch, to Kaleida, Man., about 6 miles southwest, will be constructed during the year. A con-tract for the grading has been let to Jackson and McMenemy, Winnipeg.

Brookdale to Varcoe.—A contract has been let for the construction of an extension of the Brookdale branch, which extends from McGregor to Brookdale, Man., 36 miles, to Varcoe on the Rapid City section. The ex-tension is 18 miles in length. J. D. McArthur, Winnipeg, Man., is the contractor.

Pheasant Hills Branch.-The extension of this branch from Lipton to Strassburg, Assa., 56 miles, is under construction, the contractors being Foley Bros., Larson & Co., St. Paul, Minn.

Moose Jaw-Swift Current Diversion .- During the past year the company completed the construction of a diversion on this section, about 65 miles of new track having been laid. The old line will be abandoned.

Columbia and Western Ry .- The House of Commons has given a second reading to the bill providing for an extension of time for the construction of the line. Of the lines projected there has been constructed a line from Nelson to Midway, B.C., 126.7 miles, and some branch lines. The C.P.R., which operates the line under lease, proposes to extend the line from Midway to Penticton.

Kootenay Central Ry.-The surveys for the location of this projected railway have not, we are advised, been completed, and it is impossible at present to state whether there will be any construction this year on the line, which is to extend from Fort Steele to Golden. B.C.

New Westminster to Vancouver.—The C.P.R. is applying at the current session of the Dominion Parliament for an act extending the time for the construction of its projected branch from New Westminster to Vancouver, B.C.

The Temiskaming and Northern Ontario Ry. issued time table No. 1, effective Mar. 5. It shows passenger trains leaving North Bay (C.P.R. station), Mondays, Wednesdays, and Fridays, and New Liskeard, Tuesdays, Thursdays, and Saturdays; mixed trains leave North Bay Tuesdays, Thursdays, and Satur-days, returning Mondays, Wednesdays, and Fridays.

G.T.R. Betterments, Construction, Etc.

Notre Dame de Grace Vards .--- The Board of Railway Commissioners has authorized the company to expropriate some land owned by the corporations of Ste. Cunegonde and St. Henri, for further yard extensions. are advised the plans are not yet matured, and it has not been decided what work will be undertaken during the coming year. Press reports, however, state that the work will involve the expenditure of \$1,000,000, and that the yards when completed will have a capacity of 7,500 cars, with roundhouses, etc.

The Mimico Yards.—The plans of the new yards and terminals at Mimico, Ont., are not completed, and we are advised that nothing further will be done until after the spring has opened up. The purpose is to make the Mimico yards the point for handling the freight trains for places west of Toronto, and to use the East Toronto yards for the freight trains for eastern points, retaining the To-ronto yards for the receipt, delivery and handling the freight to and from the city only

Niagara-Sarnia Double-Track Work.---With the exception of a portion of the second track between Lynden and Hamilton, Ont., the work taken in hand last year on this section of the line has been completed. A contract has been let to Ross and McRae, who have been engaged on similar work on other sections of the line, to construct a second track on the section between Kingcourt Jct. and Komoka, Ont., 27 miles, the work to be completed during the summer. The Company's road department will, as usual, lay ties and rails, and do the ballasting, etc.

Stratford Shops .- The additions to the locomotive repair shops at Stratford, Ont., have been completed.

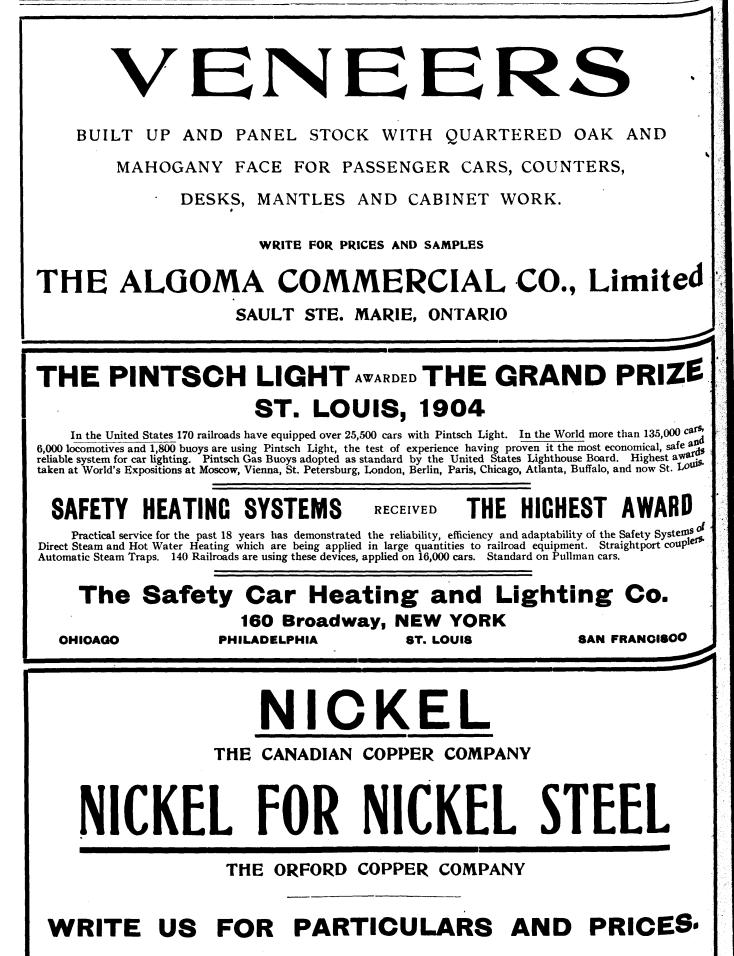
London Improvements .--- The new roundhouse at London, Ont., has been taken over from the contractors and placed in use. The coal chutes at the east end are to be enlarged so as to coal double the number of locomotives which its present capacity will allow.

Grand Trunk Western Second Track.--The second track work between Port Huron, Mich. and Chicago, Ill., 335 miles, has been com-pleted, with the exception of about $5\frac{1}{2}$ miles at Valparaiso, Ind. The gradients on the at Valparaiso, Ind. The gradients on the line have been reduced from $1\frac{1}{2}$ % to $\frac{1}{3}$ of 1% eastbound, and to $\frac{1}{10}$ of 1% westbound, and all the temporary bridges, etc., have been replaced by permanent structures.

Battle Creek Improvements .--- We are advised that the press reports that the G.T.R. proposed to spend in the neighborhood of 1,500,000 upon locomotive and car shops at Battle Creek, Mich., are altogether incorrect. It is intended, however, to build a new station there in the near future, and land has been purchased for the erection of shops. The plans and specifications for these works have not been prepared, and until this is done it is impossible to state what the im-provements will cost.

The Railway Committee of the House of Commons has thrown out the bill which proposed to provide for the better protection of railway crossings in cities, towns and villages. F. H. Chrysler, K.C., who appeared before the committee on behalf of the railway companies, said the railway Act covered every imaginable case, and the bill was unnecessary and mischievous. The C.P.R. had 805 cross-ings, and the G.T.R., 783, so that it could be seen that there must be about 2,000 crossings in Canada, and if each had to be protected, as the bill proposed, it would mean a very large expenditure, as the gates and watchman at each crossing cost about \$1,000 a year.

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General Offices : 43 Exchange Place, NEW YORK

Grand Trunk Pacific Railway.

Survey parties are in the field over the whole country between Moncton, N.B., and Winning the Eastern Winnipeg, Man., described as the Eastern Division of the Transcontinental Ry. The projected the head route is divided into six districts, the headquarters and division engineers in charge burners and division engineers in charge being:-Fredericton, G. C. Dunn; Guebec, A. E. Doucet; Ottawa, A. N. Moles-worth. Quebec, A. E. Doucet; Ottawa, A. N. Moles-worth; New Liskeard, Ont., appointment (acting); Winnipeg, Man., Major Hodgins. asked for until the fall so that work may be gone on with during the winter. Conbe gone on with during the winter. Con-struction 0 Chap. 24, struction, according to Sec. 10, Chap. 24, 1904 must be commenced simultaneously junction of N.B.; Quebec; at the point of innetion of the Eastern Division with the North Bay or Nipissing, Ont., and at Win-Monton. eastword and weetward from Que-Moneton, eastward and westward from Que-North Bay brench and esstward from Win-North Bay branch, and eastward from Win-nipeg in States and eastward from Win-Morth Bay branch, and eastward from win-nipeg, in order that the whole line between and winnipeg shall be completed The specifications for construction are being The specifications for construction are being prepared the specifications for construction are being prepared, a considerable portion of the work Chief Engineer G.T.P. Ry., is acting with the specifications etc. in conformity with the specifications, etc., in conformity with the Provisions of cattle agreement Producations, etc., in conformity with the provisions of section seven of the agreement between the Government and the G.T.P. Ry., confirmed by Observation Statutes of 1903. confirmed by Chap. 71 of the Statutes of 1903. This section sets forth that in order to pro-tect the interset forth that in order to protext the interests of the lessees of the Eastern Division Division, it is agreed that the specifications be submitted agreed that the specifications **be** submitted to, and approved of by, the **work**, and that the work shall be done ac-**Cording** to the work shall be done ac-subject to the specifications, and shall be of the chief the supervision and inspection of the chief engineer appointed by the Govenment and the chief engineer of the con-these engineer case of differences between these engineers an arbitrator is to be chosen by them by them, or appointed by the Chief Justice of the Supreme Court, if the engineers can-

In connection with the surveys upon the stern section with the surveys upon the eastern section with the surveys upon the Ry, between of the Grand Trunk Pacific Ry, between of the Grand Winnipeg, Ry between Moncton, N.B., and Winnipeg, Man, which is to be a superfructed by the Man, which Moncton, N.B., and Winnipeg, Transcontinental Railway Commissioners, lie Works contains the following paragraph:— "The despatching of so many engineering at the articles at the source time as the surveying work of the many time as the surveying work of the Transcontinental Ry, was being commenced has given employment to a large found on the formation of parties that the found on the formation of parties that the engineering profession in Canada was fully professional continuant which is required for the explore: the explorations and studies necessitated by the explorations and studies necessitated by works. All the engineering staff has been feesional training and there is no doubt that fessional by Canadian intelligence and pro-the profession and there is no doubt that the profession in Canada is fully able to include a second in the performance of the arduous duties connected Answering connections in the House of Con-

Answering questions now under way. Mons the Minister of Railways stated recently that no accurate information was available to the protection of the comnission when the progress of surveys. hission was directed to present an annual report, and directed to present an annual probably been sent in, no final reports had been presented to the department. The been been sent in, no final reports survey parties on the department. The Moncton to Winnipeg are in the field. Re-ports of the engineers between Quebec and Ports of the engineers between Quebec and

Moncton state that a route has been found round the shoulder of the State of Maine giving a grade of 4-10 of 1% going east, and 6-10 of 1 % going west.

A return made to the House of Commons shows that there are 30 persons on the staff of the Transcontinental Railway Commission, exclusive of the Commissioners:—Their sal-aries are: H. D. Lumsden, \$500 a month; M. J. Butler, \$375; A. W. H. Sampson, \$125; C. J. Jones, \$80; Fred Dillon, \$80; A. L. Ogilvie, \$150; R. L. Landry, \$70; Alice Seed, \$25; R. M. J. McGill, \$125; Jos. Clement, \$100; R. H. Lang, \$60; H. A. Collins, \$85; John Meghorn, \$75; R. Ronan, \$70; D. Lefebre, \$20; P. E. Ryan, \$208.33; R. F. Omacke, \$150; J. H. Roy, \$100; O. P. Schreiber, \$60; F. McCourt, \$70; P. Wright, \$30; F. W. White, \$100; G. O'Reilly, \$15 a week; A. T. Gow, \$150 a month; W. R. Saults, \$75; R. Lagimodiere, \$60; A. Beaudry, \$70; C. Heid-mann, \$80; R. Larocque, \$70; J. O'Malley, \$50. No allowances are made except for exclusive of the Commissioners:-Their sal-No allowances are made except for \$50. actual travelling expenses. The engineers in charge of parties are appointed by the Board upon the recommendation of the Chief Engineer. The engineering parties were made up in the first place by the Board on the recommendation of the chief and district engineers, and changes in same are made upon the recommendation of the chief of parties and the district engineers and approved of by the chief engineer. The engineers in charge of parties report to the district engineers, who report to the Chief Engineer, and he reports to the Board. Interim reports are received from time to time from the parties in the field and district engineers.

The plans submitted to the Department of Railways by the G.T. Pacific Ry. provide for large terminals at both Port Arthur and Fort William, Ont., and on the Pacific coast. These plans, it has been explained, were deposited to secure available sites from which the final sites would be selected. The Minister of Railways, replying to a question in the House of Commons recently, stated that certain plans had been deposited, but they were not available. The surveys are being prose-cuted from Winnipeg to the coast by a large number of parties, and a report from A. S. Going, who has been in the mountains since August, 1904, states that nine passes are available for a line in northern B.C. These are ¥ellowhead, Peace River, Pine River, Smoky and North Smoky, Porcupine, two in the Red Deer district, and the Wapti pass. F. M. Morse, Vice-President and General Manager, and other officials are expected to return to Montreal, April 1, from a trip to Victoria and intermediate points. At Port Arthur he stated that construction would be commenced in the spring at Winnipeg, as well as on the line from Lake Superior northerly. The money for the construction of the line, he said, had been raised in a lump sum, so that construction would not delayed no matter what economic he conditions the market may have in store. So far as the Lake terminals are concerned, Government has approved of the the expropriation of 1,600 acres of the Indian Reserve at Fort William, Ont., for this purpose, but has not taken any action in regard to the proposed terminal at Port Arthur.

The visit of the Vice-President to the west was largely for the purpose of carrying on negotiations with the B.C. Government with the view of obtaining a subsidy in aid of the construction of the 480 miles of line to be constructed in that province. Reports state that the Provincial Government was asked that the Provincial Government was asked to set aside approximately 7,000,000 acres of land as a subsidy, and that the proposi-tion is not viewed with much favor by the Cabinet. Speaking at Victoria, Mar. 10, before leaving for the east, Mr. Morse stated that it had been decided to construct the ine from east to west as being the more eco-

nomical plan. Should a start be made on the Pacific coast the cost would be much greater and the company could not change its policy without assistance from the Provincial Government either in land or cash. The financial arrangements for the construction of the line from Winnipeg to the Rocky Mountains had been completed, and it was important that the company should arrange for the balance of the line while the money market was in its present condition. No portion of the road would be suspended while others were being constructed; every section must bring its returns as soon as ready for traffic. The line would have connection with Vancouver Island and the southern portion of the province.

TRANSPORTATION APPOINTMENTS.

Canadian Northern Ry.-H. J. Cowie has been appointed European Freight Agent with offices at Liverpool, Eng.

Canadian Pacific By.—W. M. Kirkpatrick, heretofore Assistant General Freight Agent at Vancouver, B.C., is acting Export Agent at Montreal, on account of the illness of

A. E. Cook. W. T. Robson has been appointed Advertising Agent, vice C. A. Bramble, resigned. Office, Montreal.

F. O'Hara, heretofore bridge and building foreman at Sherbrooke, Que., has been ap-pointed Bridge and Building Master at Ottawa, succeeding E. Best.

W. McIlroy, heretofore C.P.R. ticket and passenger agent and Dominion Ex. agent at Galt, Ont., has been appointed C.P.R. town ticket agent at Peterboro, Ont., suc-ceeding T. E. Boddy, resigned. J. W. Leonard, Manager of Construction Toronto and Sudbury branch, and President

Guelph and Goderich Ry., is about to re-move his office from the Union Station to 118 King St. West, Toronto. F. S. Darling, Division Engineer of Con-

struction, is about to be removed from Mon-treal to Toronto, where his office will be at 118 King St. West.

W. Malcolm has been appointed C.P.R. W. Malcolm has been appointed C.P.R. ticket and passenger agent and Dominion Ex. agent at Galt, Ont., succeeding W. Mc-Ilroy, his former chief, transferred to Peter-boro, Ont. D. G. McKay, heretofore station master, has been appointed General Yard Master at Winnipeg, succeeding F. G. Arnold, trans-forced

ferred.

W. R. Hogarth has been appointed station master at Winnipeg, succeeding D. G.

McKay, promoted. W. C. Bowles, heretofore Assistant General Freight Agent, Western Division, has been appointed Assistant General Freight Agent, Pacific Division, succeeding W. M. Kirkpat-

rick, promoted. Office, Vancouver, B.C. G. H. Smith, heretofore chief clerk in the Freight Traffic Manager's office, Montreal, has been appointed Assistant General Freight Agent, Western Division, succeeding W. C. Bowles. Office, Calgary, Alta. The operation of the Esquimalt and Na-

naimo Ry. is expected to be taken over by the C.P.R. April 1, and will be in charge of J. Goodfellow, heretofore Trainmaster C.P.R. at Vancouver, with the title of Assistant Superintendent. Office, Victoria, B.C.

Grand Trunk Pacific Ry. -H. A. Wood has been appointed Assistant Chief Engineer, and it is stated that his duties will be to act conjunction with the Transcontinental Railway Commission for the eastern division from Moneton, N.B., to Winnipeg, Mau.; and in connection with the branch line to North Bay, the Lake Superior branch and any other branch lines from the Eastern Division. J. R. Stephens, who has been Assist-ant Chief Engineer for some time past, will,

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it is said, have charge of the line from Winnipeg west. The company has engineering offices at North Bay, Ont.; Winnipeg, Man., and Edmonton, Alta.

Grand Trunk Ry.—F. L. C. Bond, heretofore Acting Resident Engineer, has been appointed Resident Engineer, Eastern Division. Office, Montreal.

J. R. Melville, heretofore excursion clerk,

OGEAN STEAMSHIP ACENCIES AMERICAN LINE. PLYMOUTH — CHERBOURG — SOUTHAMPTON. Sailing from New York, Saturdays, at 9.30 a.m. PHILADELPHIA—LIVERPOOL. Sailing from Philadelphia on Saturdays. ATLANTIC TRANSPORT LINE.

NEW YORK—LONDON. Sailing from New York on Saturdays.

DOMINION LINE. MONTREAL TO LIVERPOOL. MONTREAL TO AVONMOUTH DOCKS, (Bristol and Antwerp.)

LEYLAND LINE. BOSTON—LIVERPOOL. Sailing from Boston on Saturdays.

RED STAR LINE. New York-Antwerp-London-Paris. Calling at Dover for London and Paris. Sailing from New York, Saturdays, at 10.30 a.m.

WHITE STAR LINE New York — Queenstown — Liverpool. Regular Weekly Service.

Boston-Queenstown-Liverpool. **NEW YORK AND BOSTON- MEDITERRANEAN SERVICE** Azores-Gibraltar-Naples-Genoa.

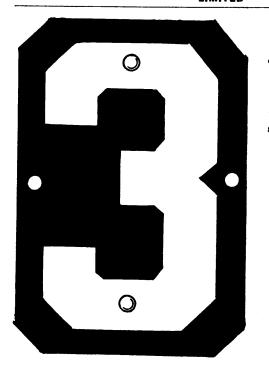
Sub-agents at all principal points in Ontario, where accommodation can be reserved and tickets secured.

CHAS. A. PIPON Passenger Agent for Ontario, 41 King St. East, Toronto.

E. L. DREWRY REDWOOD BREWERY WINNIPEG, MANITOBA. MANUFACTURER OF THE CELEBRATED ALE, EXTRA STOUT AND REDWOOD LAGER.

ALSO THE ... GOLDEN KEY BRAND ÆRATED WATERS.

THE N. L. PIPER RAILWAY SUPPLY CO.



ALUMINUM NUMBERS

Same as Cut—Registered 1904

Our Signs and Numbers are made of Aluminum and riveted with Aluminum Rivets to a Black Japanned Steel Plate. The great benefit of our Numbers and Signs is, that being made of Aluminum they will never Crack, Rust or Tarnish, and can be seen much better both by day and night than any other manufactured. The Light, Glistening Aluminum Figure standing out on the Black Background makes a Perfect Contrast between the Number and the Plate.

314 FRONT ST. WEST, TORONTO



minion. It includes the best in

IRON AND BRASS PIPE AND FITTINGS, - IRON AND BRASS VALVES, COCKS, ETC.

STEAM GAUGES, - OIL CUPS LUBRICATORS, - INJECTORS SAFETY VALVES, ETC.

Also "**REMANIT**" the great pipe and boiler covering, which saves 90 per cent. of the heat.





"HEINTZ" STEAM TRAP

which is guaranteed to pay from 15 to 20 per cent. in fuel economy.

THE JAMES MORRISON BRASS MFG. CO., LIMITED TORONTO, ONT.

has been appointed chief clerk in the General Passenos, and the Aront's office, Mon-**Passenger** appointed chief clerk in the Central **Passenger** and Ticket Agent's office, Mon-treal, succeeding G. A. Morency, resigned on account of ill-health.

C. W. Johnston, heretofore Travelling Passenser agent, Montreal, has been appointed excursion clerk, succeeding J. R. Melville,

A. E. Duff, heretofore agent at St. Lambar, E. Duff, heretofore agent at St. Lam-bert, Que, has been appointed Travelling Passenger Agent, succeeding C. W. Johnston, Montreal Headquarters, Montreal.

J. J. Connolly has been appointed Chief mond Output and Chief Mond Chief Chie mond, Que., and 4th and 5th districts, Eastern Division.

The following agents have been appointed: St. Catharines, Ont., G. D. Baxter; Thorold, Ont., S. J. Roy; Buffalo Freight, N.Y., J.

London Street Ry.-H. Smith, heretofore Assistant Superintendent, has been appointed Claims Agent.

E. Whittaker, of Toronto, has been ap-ointed Assistant Superintendent, succeeding H. Smith, promoted.

New York Central and Hudson River Rd. The titles of First, Second, Third, Fourth and Fifth Wight Print, Second, Third, Fourth and Rifth Vice-Presidents have been abolished and in future the officers heretofore known by these title the officers heretofore known by these titles will be called Vice-Presidents, and when to distinguish and whenever it is necessary to distinguish one from the departone from the other the name of the depart-ment will be other the name of the departhent will be added to the title. has been appointed a Vice-President, bringing the number up to six.

Niagara Navigation Co.-W. E. Tibbitts has been appointed General Freight and Baggage Appointed General Baggage Basgage Agent, and not General Baggage Agent, as stated in our last issue.

Quebec Central Ry.—Thos. Lindley, here-

Quebec Central Ry.—Thos. Lindley, nerc-tofore Secretary, has been appointed a direct-cr, succeeding the late Jos. Price, and is suc-London, Eng

Richelieu and Ontario Navigation Co.-M. Cussen, heretofore Auditor of Passenger Reeipts, has been appointed Auditor of Passenger and Passenger appointed Auditor of Freight and Passenger Receipts.

the following the part is territorial assign-The following changes in territorial assign-tents have been about the following changes in territorial assign-Exect the following changes in territorial assign-Western Passenger Agent. Headquarters, Toronto raster Agent. Headquarters in Toronto. In charge of passenger business in the cities of relation and the the cities of Toronto and Hamilton, and the province of Coronto and Hamilton, thereof, province of Toronio and Hamilton, and also in the other than the set of the set of the set of but also in the state of Pennsylvania west of but not including the of Pennsylvania west of but hot including the line from Cleveland to Pitts-burg, also state line from Cleveland to Pittsburg, also states of Ohio, Michigan, Indiana arg, also states of Ohio, Michigan, Indiana and Illinois, W. F. Cloney, Travelling Passen-Viagara Falls, ger Agent, W. F. Cloney, Travelling Passen-N.Y. Agent, Headquarters, Niagara Falls, west and southwest of Western Passenger and and Pittsburg and points between Buffalo and Pittsburg, also the cities of Cleve-falo and Pittsburg, and points between Buf-passenger Agent its. T. Glynn, Travelling territory as Mr. And and Pittsburg, and points in the second these cities. T. Glynn, Travennic Chaffee, to whom he will report. J. W. Can-Chaffee, Agent in same territory as much vin, to whom he will report. J. W. Canvin, Travelling Passenger Agent. Head-uarters, Alexandria Bay, N.Y. Territory, New England states and cities of Philadel-phia, Baltimore and Washington. phia, Baltimore and Washington.

R. A. Carter has been appointed Division all freight and Passenger Agent, in charge of charge of passenger business on company's including those cities Office. Toronto, but not business on company's office. Toronto. including those cities. Office, Toronto. H. Dubiese cities.

H. Dubois has been appointed Travelling and east on company's line. Headquarters,

Teniskaming and Northern Ontario Ry.— In March, E. Gurney, M. J. O'Brien, F. E. Positions as members of the Commission. The Chairman. R. Jaffray, resigned in Feb-The Chairman, R. Jaffray, resigned in Feb-

ruary. The Ontario Government has appointed C. B. Smith, C.E., Toronto; D. Murphy, Ottawa, and J. L. Englehart, Petrolea, Ont., members of the Commission. Premier Whitney subsequently stated that no further appointments would be made to the Commission. C. B. Smith has been elect-ed Chairman of the Commission, and it is stated that the Government will ask for an amendment to the act constituting the Commission in order that the honorarium of the Chairman might be made \$3,000 a year, and that the two other Commissioners will receive the same honorarium as their predecessors, \$1,000 a year each. The new Commissioners, at their first meeting, decided not to make any changes in the staff at present

J. H. Black, who was first appointed General Freight and Passenger Agent, was subsequently appointed Superintendent and Traffic Manager by the Commissioners, who have since resigned.

The officials having charge of the operations of the line are: Superintendent and Traffic Manager, J. H. Black; Trainmaster, Jno. Judge; Chief Dispatcher, D. H. Campbell. Offices, North Bay.

MAINLY ABOUT PEOPLE.

E. A. James, Manager Canadian Northern Rv. has returned to Winnipeg after a trip to Mexico.

D. L. Lockerby, who died in Montreal Feb. 26, was a director of the Midland Ry. of Nova Scotia.

E. Egg, brother of W. F. Egg, formerly C.P.R. city ticket agent, Montreal, died there Mar. 3, aged 32.

J. W. Aston, of Collingwood, has been appointed Chief Engineer of the Toronto Ferry Co.'s ferry boats.

H. Cleveland, Chief Engineer, Orford Mountain Ry., dropped dead at the C.P.R. station, Sherbrooke, Que., Feb. 24.

Mrs. McPeake, wife of the Superintendent of the New Brunswick Southern Ry., died at St. John, N.B., Feb. 23.

A.C. Burgess, who died at Lansdowne, Ont., recently, for some years conducted a number of refreshment rooms on the C.P.R.

W. F. Egg, ex-city passenger agent, C.P.R., at Montreal, left there Mar. 9, to spend a few weeks at Mount Clemens, Mich.

G. R. Harris, who died at Brookline, Mass., Mar. 13, was a director of the C.P.R., having been first elected to the Board in 1885.

Senator G. T. Fulford is G.T.R. city ticket agent at Brockville, Ont., and not C.P.R. city ticket agent as stated in our last issue.

G. I. Gwilliam, of the Cumberland Ry, and Coal Co., was married at Springhill, N.S., Feb. 23, to Miss B. Day, of Lockport, N.S.

E. F. Phillips, of the Eugene F. Phillips Electrical Works, Montreal, died recently at Phillipsdale, R.I., where he had a factory.

Miss Hardisty, who died in Montreal, Feb. 26, was a sister of G. W. Hardisty, Passenger Agent at Montreal for the Northern Pacific Ry.

S. Fraser, who died at Amherstburg, Ont., Feb. 26, aged 70, was in early life a con-tractor on the construction of the Great Western Rv.

W. Robinson, Superintendent Niagara, St. Catharines and Toronto Ry., had his right arm broken recently by the brake handle of a snow plow.

Alex. Mackenzie, who died in Marine City, Mich., recently, was a civil engineer, and for some years was engaged in construction work for the C.P.R.

H. J. Beemer, contractor, formerly of Montreal and Ottawa, is now mining in Arizona, and is building a railway from Congress Junction to the mine.

W. C. McGreevy, an engineer employed by the Canadian Northern Ry. in connec-tion with its land grant, died suddenly at Winnipeg, Man., Mar. 12.

W. Luxton was presented recently with an address and a purse of money on leaving Sydney, N.S., where he had been Superintendent of the Cape Breton Electric Co.

Lord Strathcona, who arrived at Montreal from London, Eng., recently, has contributed \$1,000 towards the building fund of the Royal Jubilee Hospital, Rat Portage, Ont.

D. A. Story, Division Freight Agent, Intercolonial Ry., Halifax, N.S., has been off duty for some time owing to illness, but was reported on Mar. 8 to be recovering.

Jno. Hall, formerly G.T.R. locomotive foreman at Hamilton, Ont., is recovering from the effects of injuries sustained from a fall down the cellar steps in his house.

G. A. Morency, who recently resigned his position as chief clerk of the G.T.R. General Passenger Agent's office, on account of illhealth, is staying at Saranac Lake, N.Y.

Hugh Sutherland, Executive agent Canadian Northern Ry., is interested in a pro-posal to take a supply of water to Winnipeg, from a point on the Winnipeg River, 54 miles distant.

A. W. Smithers, Vice-President G.T.R., has been elected Chairman of the English Association of American Bond and Shareholders, London, Eng., succeeding the late Ios. Price.

H. K. Seltzer, who had charge of the con-struction of the Fraser River Bridge at New Westminster, B.C., for Waddell and Hedrick, Kansas City, Mo., the designers, has returned to the U.S.

H. N. Frith was presented with some jewellery by his colleagues, Mar. 1, on his retiring from the position of book-keeper for the British Columbia Electric Ry., at New Westminster, B.C.

W. Mackenzie, President, and D. B. Hanna, Third Vice-President Canadian Northern Ry., have returned to Toronto after a trip to London, Eng., in the financial interests of the company.

It is announced that a marriage will shortly take place between B. J. Clergue, of the Lake Superior Corporation, Sault Ste. Marie, Ont., and Miss M. M. Roscoe, of Rickmansworth, Hertfordshire, Eng.

Foley Bros., who are carrying out large contracts on the C.P.R., have sent a dona tion of \$40,000 towards the building fund of the proposed new Roman Catholic Cathe dral at St. Paul, Minn.

J. S. Reynolds, of the C.P.R. city passenger office, Quebec, was presented recently with a travelling case by Quebec friends, on leaving for Boston, Mass., where he will also be in the C.P.R. service.

W. M. Kirkpatrick was presented with a travelling case by the C.P.R. office staff, on leaving Vancouver, B.C., for Montreal, recently, to take charge of the company's export freight department.

Col. Burke, U.S. consul at St. Thomas, Ont., who died there Mar. 15, was at one time engaged as an operator on the Montreal Telegraph Co., at Montreal, and later with the Western Union Telegraph Co.

A. Bruce, who died at Stratford, Ont., recently, was roadmaster on the G.T.R. at Island Pond, Vt., from 1874 to 1879, and held a similar position on the line between Toronto and Sarnia, Ont., from 1879 to 1902.

A. Miscampbell, who died in Toronto Mar. 25, aged 57, was at one time Manager of the Northern Navigation Co., and subsequently of the Algoma Steamship Co. For some

THE RAILWAY AND SHIPPING WORLD.

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Sole Canadian Agent-MR. GEORGE HOLLAND, M.C. Soc. C.E., P.O. Box 529, MONTREAL

G. B. Hall, who has been appointed As-stant Storekonse G.D.B. of Montreal, was G. E. Hall, who has been appointed As-born at Napanee, Ont., Oct. 18, 1878, and ing in that year and in 1800 as purser on one

ing in that year and in 1899 as purser on one of the Richelieu and Ontario Navigation Co.'s

and south of St. Louis, and embrace 6,182

J. W. Higgins, who in Dec. last resigned the G.T.R. at London, Ont., and was apue G.T.R. at London, Ont., and was ap-pointed Inspector of Transportation, Missouri aut General Manager of that system, in charge The general superintendents report to and lating instructions from him in matters re-Receive instructions from him in matters relating to the transportation service. The Missouri Pacific lines are practically all west south of c. Toric and embrace 6,182

wright, Comptroller and General Assist-ant, G.T.R., Montreal, died on Mar. 16, at Saxonhureet, Wontreal, died Mare. Eng., the residence of her brother-in-law, Jas. Stephen-Mis. Wainwright left for England for a com-tool change early in Eable but her illness Plete Change early in Feb., but her illness took a serious turn, and Mr. and Miss Feb. 24.

Mrs. Wainwright, wife of W. Wain right Comptonic Constal Assist-

Charles Cameron, who died in To-ronto, Mar. 23, aged 67, after an oper-ation, from the age of which he ation, from the effects of which he Never rallied, was resident in Colling-wood, Ome wood, Ont., for many years, and was a well-known lake mariner. He was Connected with the old Great Northern Transit Co., which was subsequently Co. of Ontaria of Ontaria of Ontaria of Ontaria Co. of Ontario, of which he was elected a director, and in 1893 he was

his resignation from the directorate. Jas. A. Manning, C.P.R. operator at Deux Rivieres, Ont., was recently at North Deux 15 days' imprisonment at North Bay, for drinking intoxicating to North Bay, for drinking intoxicaums liquor while on duty, in contravention of the company's rules, and in vio-the maximum paralty imposed by The maximum penalty imposed by nent for a fine of \$400 and imprisonment for five years.

Hon. S. N. Parent, who was nomin-ated by the Dominion Government as its representation of the dispersion of the sector at the office of the sector at the s the G. T. Pacific Ry. Co., did not ac-cept the Dominion Covernment as cept the position, according to the statement of the Secretary of State in his resignation from the directorate.

W. Whyte, Second Vice-President C.P.R., and Mrs. Whyte, arrived in the City of Mexico, Feb. 28 on yie, arrived in the City of Mexico, Feb. 28, on a holiday tour, accompanied by the Lieuten Holiday tour, accompanied by the Lieutenant-Governor of Manitoba, Sir Daniel McMillan and Lady McMillan. They wrong early are expected to return to Winnipeg early

R. Watchorn, recently Inspector of Im-nigration, at Montreal, who has been ap-pointed to a similar position at New York, was entertained recently at a dinner by the was.entertained recently at a dinner by the agents in esteamship passenger and freight actuate of the second straining passenger and steamship passenger and steamship passenger and the second straining of the second straining straini

P. S. Archibald, C.E., Moncton, N.B., has been appointed a referee by the Exchequer ters of Canada, to report on certain mat-ern and South Shore reilway companies, and the Bank of the Shore railway companies, and the Bank of Hochelaga.

Ry, had resigned to engage in construction work on the G. T. Pacific Ry. are, we are b of untrue.

The press reports recently current that E. Chamberlin, General Manager, and J. W. Ry, had eneral Assistant, Canada Atlantic

Years he was a member of the Ontario Leg-

steamers between Montreal and Toronto. His record since has been: May, 1900, to Sept., 1901, clerk in the office of the Chief Engineer, C.P.R.; Sept., 1901, to Feb., 1902, clerk in office of Second Vice-President and General Manager, C.P.R.; April, 1902, to Feb., 1905, private secretary to Vice-President, C.P.R.

W. M. Kirkpatrick, who has been appointed acting Export Freight Agent C.P.R., Mon-treal, is a son of the late Sir George A. Kirk-patrick, formerly one of the C.P.R. directors. He was born at Kingston, Ont., Oct. 8, 1874, and entered railway service Mar. 7, 1892, in the office of the Vice-President of the C.P.R., since which time he has filled various positions in the Chief Engineer's office, foreign freight office, Montreal; General Freight Agent's office, Toronto; from July, 1899, to Dec., 1902, he was clerk in the office of the Fourth Vice-President, and from Dec., 1902, to the date of his present appointment Assistant General Freight Agent Pacific Division, at Vancouver

Jno. Paul, who has been appointed General Freight Agent, Niagara, St. Catharines and Toronto Ry., was born in Euphrasia township, Grey county, Ont., Sept. 13, 1853,

son Co., Green Island, N.Y.; Dec., 1903, to Feb., 1905, Superintendent Motive Power, Central Vermont Ry., St. Albans, Vt. W. E. Fowler, whose portrait appears on

the first page of this issue, has been engaged in railway car construction since 1880, his record being: Mar., 1880, to Sept., 1882, car builder in shops of St. Louis, Iron Mountain and Southern Rd., Baring Cross, Ark.; Oct., 1882, to Nov., 1883, car builder in shops of the Union Pacific Co., Denver, Colo.; Nov., 1883, to the end of 1889, car foreman, same company, at Denver; 1890 to 1891, general car foreman Denver, Texas and Fort Worth Rd., Denver, Colo.; 1891 to 1893, car foreman, Union Pacific Rd., at Denver, Colo.; 1894 to 1900, Master Car Builder, Union Pacific, D.G. and Colorado Southern Rd.; 1900 to April, 1902, General Car Inspector and Master Car Repairer, Southern Pacific Rd., at Sacramento, Cal.; 1902 to date, Master Car Builder, C.P.R. He was elected Second Vice-President of the Master Car Builders' Association in 1904

Cecil B. Smith, the newly appointed chairona, Ont., Mar. 13, 1865, and is a Master of Engineering of McGill University,

where he was awarded the Governor-General's medal. Since graduation his record has been:-1884 to 1886, Resident Engineer on construction Nipissing and Pacific Junction Ry., in the Parry Sound district; 1886 to 1887, transitman C.P.R., London to Windsor, Ont.; 1887 to 1888, Resident Engineer St. Catharines and Niagara Ry.; 1888 to 1889, Resident Engineer, C.P.R., London, Ont.; 1889 to 1890, Resident Engineer, Chief Draughtsman and Division Engineer on lines in Tennessee and South Carolina; 1890 to 1892, Chief Assistant Engineer, Roanoke and Southern Ry., Virginia: 1892 to 1893, Resident En-Virginia; 1892 to 1893, Kesident En-gineer, Baltimore and Ohio Ry., in Pennsylvania; 1893 to 1898, Assistant Professor Civil Engineering, McGill University, Montreal; 1898 to 1899, locating engineer C.P.R., Sudbury to Toronto surveys; 1901 to 1905, Resident Engineer Canadian Niagara Power Co.; and from 1902 Consulting Engineer International Railway Co. He is a member of the Canadian Society of Civil Engineers, of which he has been three times elected a member of the Council; a member of the American Society of Civil Engineers, and is author of a work on railway engineer-As a consulting engineer he has ing. As a consulting engineer he has advised on canal, harbor and other

works. From 1889 to 1901 he was Assistant City Engineer, Toronto.

The C.P.R. added to its equipment dur-ing the current year to Mar. 21, one freight locomotive from the Canada Foundry, Toronto; nine switching locomotives, four firstclass cars, one baggage car, 12 snow ploughs, 11 flangers, 629 box cars, and 17 flat cars, from its Angus shops; and one wrecking crane from the U.S.

E. de la Hooke, G.T.R. city ticket agent, London, Ont., in a card soliciting business, says: "The telephone is a lively customer, but cash customers increase revenue. The latter are to the former what the proverbial leg of mutton is to the caper sauce-an improvement. As units, the joint is preferable, as being the more nutritious."

The C.P.R. during the current year to Mar. 21, placed the following orders for equipment: 30 freight and passenger locomotives, with the Locomotive and Machine Co. of Montreal; one wrecking crane in the U.S.; 40 vans at its Farnham, Que., shops; 10 freight and passenger locomotives, 3,000 box cars, 200 Hart convertible cars, and one dynamometer car at its Angus shops.

General Freight and Passenger Agent, Bay of Quinte Ry., Thousand Islands Ry., Oshawa Ry., and Deseronto Navigation Co.

I. F. CHAPMAN.

entering railway service with the Northern Ry. at Meaford, Ont., his record since 1879 being: Aug., 1879, to May, 1881, agent Northern Ry., at Creemore, Ont.; May, 1881, to Oct., 1883, agent same company at Thorn-bury, Ont.; Oct., 1883, to Aug., 1885, in private business; Aug., 1885, to April, 1890, G.T.R., successively as relieving operator, ticket clerk at St. Catharines, Ont., and at London Ont. April 1990 to Each London, Ont.; April, 1890, to Feb., 1905, city passenger and ticket agent, Michigan Central Rd., at London, Ont.; in Nov., 1894, the duties of city freight agent were added.

A. Buchanan, who has been appointed Superintendent of Motive Power and Car Department Central Vermont Ry., was born in New York City, April 3, 1870, and entered railway service in 1885, his record being: 1885 to 1891, machinist's apprentice, New York Central and Hudson River Rd.; 1891 York Central and Hudson River Rd.; 1891 to 1893, machine shop foreman same road, West Albany, N.Y.; 1893 to 1894, engine house foreman, same road, Dewitt, N.Y.; 1894 to 1897, erecting shop foreman, same road, West Albany, N.Y.; 1897 to 1900, gen-eral foreman locomotive department, same road, West Albany, N.Y.; Jan., 1900, to Dec., 1903, Master Mechanic, Delaware and Hud-



APR., 1905.]



Eastern Canada Passenger Association.

The following lines were represented at a recting of Toronto. Feb. ^{4 AB} following lines were represented at a meeting of passenger lines in Toronto, Feb. tral Ontario, Grand Trunk, Intercolonial, falo, and Wabesh reilways Muskoka Lakes Naviontian Mabash railways, Muskoka Lakes Navigation and Wabash railways, Muskoka Lanco-Navigation and Hotel Co., Niagara Naviga-Co. W. P. Hinton, G.F. & P.A., Canada At-Grand Trunk P., Secting as Secretary.

Grand Trunk Ry., acting as Secretary. It was decided that the women's social work he maged in Salvation Army rescue work, be given the same reduced fares as nuns, sisters of charity and deaconesses, to become effective when the Commissioner of the Salvation Army advises that these officers have been provided with distinctive costume. The Chairman, and G. T. Bell and C. E. Uswere appointed a committee to confer the cappointed a committee to confer with the commissioner regarding the matter. An application from the Commissioner for a rate of to a state of the state of Tate of 1c, a mile for eight prison gate officers Was referred to the same committee for enquiry, and to report at a subsequent meeting. Convention plan arrangements were fully body the Convention was decided to personally notify the Convention are decided to personally notify the Commissioner of the Central Passenger Association that the formation of a passenger association that the formation of a passenger association that the formation of the meeting that for internation and the sense of the meeting that for international conventions held in the U.S., the Canadian lines should co-oper-convention plan associations on their agreed in the the state of the state of the state of the state internation plan associations on the state of the state internation plan associations and that for convention plan arrangements, and that for international conventions held in Canada, the associations held in Canada, associations should be consulted by other is the second descent and the second descent descent and the second descent descent

It was agreed that the action of this meet-be present that the action of the held in Montreal Mar. 9, to form a Canadian passenger association. Pursuant to this decision all passenger to pursuant approximation operatinger association. Pursuant to this decision all passenger transportation companies oper-ste Marie, Port Huron and Detroit were in-vited to attend a masting in Montreal to revited to attend a meeting in Montreal to reappointed Sent of the committee which was are the report of the committee which was as to the advisability of forming a Canadian

as to the advisability of forming a carry passenger association. At the meeting in Montreal, Mar. 9, 38 Henry, Traffic Manager Richelieu and On-and P. C. Cleary, of the G.T.R. Passenger meeting of the G.T.R. Passenger meetin Department, Secretary. After a full dis-association as to the advantages of the proposed and the articles of organization, as submitted and the articles of organization, as submitted by Messrs. Ussher, Bell and Hinton, were timeted after being organized in certain paradopted after being amended in certain par-action thereon the understanding that final action thereon the understanding that makes regular meeting would be taken at the first resultar meeting of the association to be held

An executive committee, consisting of C. E. Ussher, G. T. Bell, and T. Henry were on the following curve inner appointment of on the following questions: appointment of a chairman, his salary, etc.; whether proxies and special meetings,

be allowed at regular and special meetings, him and if so, how many; office, etc., for the and if so, how many; office, etc., to. F. Backus, J. M. Lyons, G. Collins, G. E. committee to Prepare rules and submit them The source instructed to send a "on trans-

The secretary was instructed to send a portation lines into the who were portation lines not represented, who were Portation lines not represented, who were rence in the meeting, asking their concur-to attend the meeting on April 4, to complete the organization taken, and inviting turns the organization of April 4, to complete

the organization. Meetings of the executive committee and the committee on rules have since been

the committee on rules have since been and their resented at a held and their reports will be presented at a

meeting to be held in Montreal, April 4. It is reported that the original intention has been somewhat changed and that instead of a paid chairman being appointed this position will probably be an elective one and that the work of the Association will be performed by a paid Secretary.

Dominion Marine Association.

The second annual meeting was held at Ottawa, Ont., Mar. 23, with a good attendance of members, the President, C. F. Gilder-sleeve, of Kingston, Ont., occupying the chair.

The report of the executive committee dealing with its work during the past year was adopted, and a number of matters of considerable importance to the marine interests were fully discussed.

It was resolved that the Association is of the opinion that arrangements with the United States Government for reciprocal steamboat inspection with Canada would be to the interest of both countries, and that the Association respectfully requests the Department of Marine to take immediate steps with that object in view.

It was decided that the membership assessment for 1905 be at the rate of 2c. per ton on steam vessels and ¹/_c. per ton on sailing and barge property, the executive committee being given power to consider special rates, such as that of a company owning a large number of vessels.

number of vessels. The following were elected as an executive committee:—C. F. Gildersleeve, President Lake Ontario and Bay of Quinte Steamboat Co.; H. C. Hammond, President Northern Navigation Co. of Ontario; J. H. Hall, Ot-tawa Transportation Co.; J. A. Cuttle, Man-aging Director Montreal Transportation Co.; H. W. Richardson, Kingston, Ont.; C. J. Smith, General Manager Richelieu and On-tario Navigation Co.; R. O. Mackay, Hamil-ton, Ont.; A. A. Wright, Victoria Harbor Lumber Co.; D. Murphy, Ottawa Forward-ing Co.; S. Crangle, St. Lawrence and Chi-cago Navigation Co.; Capt. T. Donnelly, Donnelly Wrecking and Salvage Co.; F. Plummer, Canadian Lake and Ocean Navi gation Co. gation Co.

C. F. Gildersleeve declined to accept reelection as President, and a vote of thanks was enthusiastically passed for his untiring efforts in the interest of the Association. The executive committee elected J. A. Cut-tle President; H. C. Hammond, 1st Vice-President, and A. A. Wright, 2nd Vice-President.

In the afternoon the members attending the meeting, accompanied by W. Harty, M.P., had interviews with the Minister of Marine and Fisheries, the Minister of Railways and Canals, the acting Minister of Public Works, and the Commissioner of Customs, and urged a number of matters in the interest of the Association.

At the Canadian Railway Club's meeting on Mar. 7, a paper was read by A. A. Maver, Master Mechanic G.T.R., Montreal, on "A System of Hot Feed Water for Stationary Boilers and Shop Heating.'

The names of the following steamers of the Richelieu and Ontario Navigation Co.'s fleet have been changed:-Algerian to Cornwall, Bohemian to Prescott, Canada to St. Irenee, Cultivateur to Varennes, Corsican to Picton Saguenay to Chicoutimi, Virginia to Tadou-sac, Spartan to Belleville. The change in the names of the steamers has been made in pursuance of a decision of the company to have all its vessels named after the principal cities, towns and rivers on their routes. steamers which the company has had built in recent years, Kingston, Toronto, Montreal, have been named in this way.

Regulations Respecting Freight Tariffs.

Hardwell, Chief Traffic Officer, and A. D Cartwright, Secretary of the Board of Railway Commissioners, have issued the following circular:

Section 266 of the Railway Act of 1903 reads as follows:--"Where traffic is to pass over any continuous route in Canada operated by two or more companies, the several companies may agree upon a joint tariff for such continuous route, and the initial company shall file such joint tariff with the Board. and the other company, or companies, shall promptly notify the Board of its, or their, assent to and concurrence in such joint tariff. The names of the companies whose lines compose such continuous route shall be shown by such tariffs."

A circular issued by the Secretary of the Board on Sept. 16, 1904, prescribes the form of certificate of concurrence to be filed with the Board, separately for each and every joint tariff, by each carrier named as party thereto. In lieu of these individual certificates, the Board is prepared to receive from each company one general notice of concurrence in all joint tariffs to which it has been, or may be, made a party, excepting those which it may repudiate by filing a special notice of non-concurrence with the Commission. The form of certificate of general concurrence is prescribed as follows:—

TO THE BOARD OF RAILWAY COMMISSIONERS FOR CAN-ADA, OTTAWA, ONT.

The certificate is to be signed in person by the official designated in section 251 of the Act and mailed to the Chief Traffic Officer, Railway Commission for Canada, Ottawa. Should "duplicate," may be enclosed with the filed certificate, to be receipted and returned. This general form of concurrence will be accepted from parties to international joint tariffs, but it is to be understood that no carrier participating in a joint international tariff is hereby relieved of the obligation of seeing that the tariff is duly filed by the initial company. This arrangement will con-tinue in force until further notice from the Board.

TARIFF CHANGES .--- It is ordered that the occasion for the issue be shown in future at the top of the front page (in centre, or near the C. R. C. no.) of all tariffs, supplements, amendments, etc., thus: "Advance," "Re-duction," "Re-Issue," or "New Rate (or Rates)" as the case may be.

Esquimalt and Nanaimo Ry.—A Victoria, B.C., despatch dated Mar. 27, refers to Jas. Dunsmuir, the President, as stating that the proposed purchase by the C.P.R. is off. The sale was made subject to necessary legislation being obtained, and a difficulty is said to have arisen in connection with the passage of a clause providing for the retention of the land grant by the Dunsmuir estate with all the rights and privileges attaching to it under the original grant. The principal advantage sought to be obtained was exemption of the land from targetion land from taxation.

The Board of Railway Commissioners recently completed a series of sittings at various points in Ontario. Among the places visited were Toronto; Guelph, where the question of the acquisition of some park lands by the G.T.R. for station extension was considered; Windsor, where the ques-tion of the bridging of the Detroit River was looked into; and Niagara Falls, where a num-ber of matters were considered ber of matters were considered.

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THE RAILWAY AND SHIPPING WORLD.

[APR., 1905



at the current session of the Ontario Legis-

ELECTRIC RAILWAYS.

Projects, Construction and Betterments.

British Columbia Electric Ry.-In connec-British Columbia Electric Ry.—In connec-tion with the leasing of the Vancouver and July 1, we are informed that the work of electrifying the line will be done by the is expected that care will be running over it about Intra to the work is now in progress and a about Intra to the work inabout July 1. The plans for the work in-clude a power station of steel and concrete, the main built. the main building being 50 ft. square. About 150 miles of the trans-**150** miles of wire will be used in the trans-mission size It is also mission circuits and the feed wire. It is also connection with the freight traffic on the line. The with the freight traffic serthe. The agreement calls for an hourly ser-bourly service between April 1 and Oct. 31, and a two

lature for the passing of an act incorporating a company for the purpose of constructing a railway from London through the counties of Middlesex, Oxford, Perth, Waterloo and Wellington, to Guelph, Ont. A. T. Drummond, Toronto, is solicitor for the applicants.

Niagara, St. Catharines and Toronto Rv .--We are advised that the recent press reports that all arrangements had been completed for the extension of the line to Hamilton, Ont., are not correct, as nothing definite has yet been decided.

F. Nicholls, President, met the St. Cath-arines City Council Mar. 16, and stated that if the company's application for an extension of time for the construction of the line to Hamilton and Toronto was granted, a survey of the route would be immediately started. If the application was refused, the interests controlling the company would fall back on the authority giving the Toronto and Niag-ara Power Co. to construct an electric railway on its right of way, which had been in-tentionally made sufficiently wide to provide for a double track. In the projected electric railway between Toronto and Buffalo it was proposed to make St. Catharines the only large point outside Toronto. It was intended to carry the main line across Hamilton Beach, and to run a spur line from Stoney Creek into Hamilton. "We will," added Mr. Nicholls, "make any railway extensions in the Niagara peninsula which will pay us, because we are here for a dual purpose. We will build railways which will develop the Niagara district, and thus create a market for the power we are generating at Niagara Falls. We have nearly all our towers up, and are just about ready to distribute power." (Mar., pg. 111.)

Southwestern Traction Co.-An agreement has been reached with the St. Thomas City Council for the use of the city's electric railway. The company has practically completed its railway from London to St. Thomas, and will extend it to Port Stanley, Ont. Its tracks will connect with the city lines, and it has secured a right to run over the city lines to the point of departure for Port Stanley, for fifty years, at a rental starting at \$1,200 a year, and increasing every five years to \$1,750 a year at the end of the 25th year, when the matter of price is to be again considered. It will not collect any fares in the city, but will pay the cost of power and half the cost of the maintenance of the tracks used. The company is now installing the machinery in its power house situated at the southern limits of the city of London. Preparations are being made for the continuation of construction work as soon as the weather is sufficiently open. The extension of the line sufficiently open. The extension of the line to be gone on with is between St. Thomas and Port Stanley, and it is expected that the construction company will sublet contracts for portions of the grading. (Mar., pg. 111.)

Toronto Railway .- An arrangement has been completed for the extension of the lines in the Rosedale district, for the purpose of completing a belt line there.

Toronto and Hamilton Ry .--- Tenders will be received to May 1 for the grading, culverts, masonry, bridges and other works required Nagara Falls, Ont. The route to be followed is substantially the same as that of the pole line of the Toronto and Niagara Power Co. F. Nicholls, Toronto, is President, and W. T. Jennings Chief Engineer, of the company. (Mar., pg. 111.)

The Canadian Freight Association met at Montreal, Mar. 7, when it was decided to maintain the same rates for lake and rail business as were in force for the season of 1904, with one or two minor exceptions.

Canadian Street Railway Association.

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The first quarterly meeting of the Canadian St. Ry. Association was held in Ottawa, Mar. 7, the following being present: Dr. S. Ritter Ickes, President; A. J. Pattison, Vice-President; W. R. Turnbull, Director Grand Valley Electric Ry.; C. E. A. Carr, General Manager London St. Ry.; W. G. Ross, Man-aging Director; L. Macdonald, Manager; P. Dubee, Secretary Montreal St. Ry.; T. Ahearn. Vice-President; W. Y. Soper, Director; J. D. Fraser, Secretary-Treasurer; J. E. Hutch-D. Fraser, Secretary-Treasurer; J. E. Hutch-eson, Superintendent; J. Murphy, Electri-cian Ottawa Electric St. Ry.; E. G. Evans, General Manager Quebec Ry., Light and Pow-er Co.; Col. H. H. McLean, K.C., Director St. John Ry.; W. H. Moore, Assistant to the President Toronto Ry., and Manager Toronto & York Radial Ry.; J. D. Mc-Arthur, Superintendent Toronto & York Padial Ry.; A. H. Boyco, Vice President Arthur, Superintendent Toronto & York Radial Ry.; A. H. Royce, Vice-President Toronto Suburban Ry. C. Archer, Solicitor Montreal St. Ry.; and Acton Burrows, Pub-lisher of the RAILWAY & SHIPPING WORLD, The Proc were also present by invitation. The Pres-ident, W. G. Ross, occupied the chair.

Papers were read by C. E. A. Carr, on the transportation of mails and postmen; by W. H. Moore, on his recent inspection of electric railways in the U.S.; by W. G. Ross, on mutual benefit associations, and by Dr. S. Ritter Ickes, on Sunday legislation in Ontario as affecting electric railways. Papers were to have been read by W. C. Hawkins, General Manager of the Hamilton Cataract Power, Light and Traction Co., and by E. F. Seixas, General Manager of the Niagara, St. Catharines & Toronto Ry., but they were unable to be present.

W. H. Moore stated that with other officials of the Toronto Ry., he intended inspect-ing electric railways in districts they had not already visited, and that he would be glad to have any other members of the association accompany them.

The executive committee was authorized to appoint sub-committees to consider the questions of the transportation of mails and postmen, freight rates, and the best form of fender for suburban lines. Dr. Ickes, Col. McLean and A. H. Royce were appointed a committee to consider the Sunday observ-ance legislation as affecting Ontario lines.

After the meeting a number of those present were taken by special car on the Ottawa Electric St. Ry. to inspect the company's power house, car barns, etc., and also the Ottawa Car Co.'s works.

The executive committee subsequently The executive committee subsequently appointed the following sub-committees:— Transportation of Mails and Postmen, T. Ahearn, C. E. A. Carr, E. G. Evans, Col. H. H. McLean; Freight Rates, E. G. Evans, W. H. Moore, E. F. Seixas; Fenders, W. C. Hawkins, J. E. Hutcheson, S. Ritter Ickes.

The paper on Mutual Benefit Associations, read at the meeting at Ottawa, will be found on the first page of this issue.

Halifax Electric Tramway Co.

The report presented at the recent annual meeting showed gross earnings for 1904, of \$379,464.81, an increase of \$14,009.85 over 1903. The operating expenses were \$211,-941.57, a reduction of \$28,871.10. This result was obtained by the economics attending the use of the new machinery and modern appliances installed in 1903, and the lessened consumption of fuel. A further expenditure of \$31,209.17 was made on capital account on the completion of the new power house and plant, etc.

Beamsville Electric Ry. recently purchased station, and reports state that this purchase has something to do with the proposal. has something to do with the proposal. Namilton, Ancaster and Brantford Ry.-Application, Ancaster and Brantford By. son of the Ontario Legislature for power to increase the Ontario Legislature for power to bud issue to capital stock, and to increase the The Hamilton City Council 125,000 a mile. The Hamilton City Council as passed a by-law granting a light of way along James and Main streets. ith the prodict of that a formal start was made

with the grading at Ancaster Mar. 16, in A suggestion has been made for the construc-

A suggestion has been made for the construc-tion of a union the line Hamilton for the

radial railways.

of a union station in Hamilton for the

Ramiton Radial Ry. Work has been start-setting in the abutments

ed getting in Radial Ry, Work has been start of the bridge over the river at Oakville, Ont.

or the bridge over the river at Oakville, Ont. The steel work for the bridges at Bronte and ad other material for the bline are in course the steel work for the line are in course the steel work for the line are in course the steel work for the line are in course the steel work for the line are in course the steel will be completed so as to permit

tracklaying will be completed so as to permit the running of one completed so as to permit the running of cars early in the summer.

London to Galt.—Application will be made

Ramilton, A proposal has been made for the establishes of the station for the the establishment of a union station for the discount radial railways entering of the different radial railways entering city rule and Crimsby and

has been appointed Chief Engineer.

Edmonton Street Ry.—Contracts are re-Tailway in the construction of an electric railed let for the construction of an electric failway in Edmonton, Alta., about five miles placed at ele cost of the rails and ballast is **Ang.** The cost of the rails and ballast is placed at \$15,000 a mile, the bonding and equipment of the power house at \$16,000. Sept. 1. J. M. Campbell Kingston, Ont.,

Canada-Middlesex Ry.—G. C. Thompson, W. Meredith, W. M. Smith, Jos. Montgom-at the current session of the Dominion Par-min. for an act incorporating a company the current session of the Dominion 1.... with this title to construct a railway from the Niamon Field of the Welland the Niagara River, north of the Welland at \$500,000 and bonds to the extent of \$35,-may be issued. Steam may be 000 a mile may be issued. Steam may be used as a motive power during the construc-tion of the line but shall not be used as notive rower during the construction of the line, but shall not be used as power is motive power for its operation. Power is being asked being asked to make agreements with all **Steam and electric** railways between the two Points named. (Jan., pg. 11.)

bourly service during the winter months, with at least three freight trains a day. The extension to Kitsilanto Beach em-or a spart of the C.P.R. line, and consists oraces a part of the C.P.R. line, and consists of a spur line from Granville St., Vancouver, Ment has been provided, and a car service the Railway Commission has been given the Railway Commission has been given to certain wire crossings. (Mar., pg. 109.)



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THE TRUSTS & GUARANTEE COMPANY,

ELECTRIC RAILWAY STATISTICS FOR YEAR ENDED JUNE 30, 1904.

The following abbreviations are used in the names of railways:—E., electric; E. R., electric railway; E. S. R., electric street railway; the line to the control of the co the line to the extent of the figures given. The numbers in brackets-thus (1)-after the name of a railway refer to notes below.

Name of Railway	Mil'ge	Gross Earnings	Net Earnings	Proportion of earnings to working expenses	Earnings per train mile	Operating per train mile	Freight Mileage	Car Mileage	Passengers Carried	Freight Carried
erlin and Waterloo S. R. (1) rantford S. R. iritish Columbia E. R. (2) onwall E. R. rand Valley Ry. (3) rand Valley Ry. (3) rand Valley Ry. (3) lamilton and Dundas S. R. (5) lamilton and Dundas S. R. (5) lamilton and Dundas S. R. (5) lamilton Radial E. R. (6) lamilton Radial E. R. (6) ingston, Grimsby and Beamsville E. R. lamilton S. R. (7) nternational Transit Co. evis County Ry. Actropolitan (Toronto) Ry. (10) Montreal Park and Island Ry. (11) Montreal S. R. (12) Viagara Falls Park and River Ry. (14) Viagara Falls Park and River Ry. (14) Viagara Falls Wesley Park & Clif. Ry. (15) Patwa E. R. (16) evis County S. R. (16) Nontmorency Division andwich, Windsor and Amherstburg Ry. Set-booke S. R. (19) Montmorency Division andwich, Windsor and Amherstburg Ry. Set-booke S. R. (19) Nontmorency Division andwich, Windsor and Amherstburg Ry. Set-booke S. R. (19) Nontmorency Division andwich, Windsor and Amherstburg Ry. Set-booke S. R. (19) Nontmorency Division Montmorency Division andwich, Windsor and Amherstburg Ry. Set-booke S. R. (19) Nontmorency Division Set-booke S. R. (19) Nontmorency Division Montmorency Division	$\begin{array}{c} 3.00\\ 13.68\\ 19.94\\ 4.50\\ 8.02\\ 22.87\\ 9.00\\ 6.82\\ 17.22\\ 25.00\\ 23.15\\ 7.00\\ 13.00\\ 4.50\\ 18.80\\ 8.50\\ 5.87\\ 46\ 75\end{array}$	$\begin{array}{c} \$ & 23,467.76\\ 18,158.63\\ 454,508.42\\ 73,012.05\\ 19,958.14\\ 41,017.14\\ 25,084.85\\ 19,889.41\\ 150,865.60\\ 36,722.38\\ 65,766.36\\ 67,292.04\\ 220,100.35\\ 84,873.32\\ 48,439.60\\ 32,766.62\\ 35,094.04\\ 165,006.20\\ 79,396.63\\ 160,486.02\\ 2,412,763.32\\ 83,686.644\\ 4,712.85\\ 124,201.58\\ 123,433.46\\ 26,959.60\\ 40,183.02\\ 362,411.75\\ 36,723.85\\ 17,706.10\\ 190,217.50\\ 86,498.31\\ 117,672.00\\ 27,000.00\\ 106,880.88\\ 29,449.67\\ 92,173.02\\ 21,080.99\\ 28,916.96\\ 2,310,620.14\\ 19,619.76\\ \end{array}$	$\begin{array}{c} 54,029,\ 45\\37,716,\ 64\\48,945,\ 81\\11,225,00\\37,831,\ 79\\6,648,\ 65\\27,073,\ 62\\1,172,\ 54\\8,864,\ 87\\1,008,393,\ 20\\5,014,\ 38\end{array}$	$\begin{array}{c} p. c. \\ 96 \\ 84 \\ 154 \\ 102 \\ 102 \\ 105 \\ 127 \\ 109 \\ 109 \\ 106 \\ 126 \\ 120 \\ 105 \\ 120 \\ 105 \\ 120 \\ 105 \\ 130 \\ 152 \\ 130 \\ 152 \\ 130 \\ 144 \\ 94 \\ 163 \\ 139 \\ 120 \\ 131 \\ 231 \\ 143 \\ 244 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 163 \\ 164 \\ 171 \\ 165 \\ 133 \\ 169 \\ 170 \\ 171 \\ 171 \\ 171 \\ 154 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 144 \\ 105 \\ 129 \\ 129 \\ 134 \\ $	$\begin{array}{c} \text{cts.} \\ 25\\ 22\\ 23\\ 25\\ 22\\ 23\\ 25\\ 25\\ 22\\ 23\\ 25\\ 25\\ 23\\ 25\\ 22\\ 23\\ 36\\ 11\\ 28\\ 33\\ 17\\ 17\\ 29\\ 41\\ 16\\ 14\\ 14\\ 39\\ 28\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 18\\ 18\\ 72\\ 20\\ 15\\ 23\\ 28\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ 1$	cts. 266 262 15 222 100 262 28 08 08 155 23 151 15 152 15 177 11 14 28 31 100 100 100 100 10 100 10 100 10 100 10 101 10 102 11 133 04 133 04 133 04 133 04 133 04 133 04 133 04 130 04 131 04 130 04 130 04 130 04 130 04 130 04 130 04 130 04	18,580 297,673 19,356	179,702	978,992 4,104,719 521,083 1,745,598 59,595,886 935,419 88,933 1,100,008 733,045 512,062 134,228 7,649,850 646,295 359,593 4,457,761 721,330 1,984,663 800,000 1,396,389 510,502 2,008,180 478,590 543,888	
S. R		19,648.29	9,659.40 638.78) 196 3 106	21	11	· · · · · · · · · · · · · · · · · · ·	$\begin{array}{r}1,513,458\\91,805\\79,920\\42,066,124\end{array}$	224,424 176,067	1 7

^{Notes} to Electric Railway Statistics.

- (1) The Berlin and Waterloo mileage in-cludes the Berlin and Bridgeport E.S.R., 2.5 tains, which is operated under lease. It obnissionere from the Berlin Light Com-(2) The B.C. Electric Ry. has 7.50 miles of (3) miles (3
- (3) The Grand Valley Ry. obtains its power from the Brantford St. Ry.

(4) The Guelph Radial has 1.58 miles of (5) Track.

(5) The Hamilton and Dundas Ry. ob-

tains its Power from the Cataract Power, Light and Traction Co.

(6) The Hamilton Radial has 10.50 miles double tract of double track.

(7) The Hamilton St. Ry. has 10 miles of buble track. It obtains its power from the double track. It obtains its power from the Cataract Power Viett and Traction Co. Cataract Power, Light and Traction Co.

.

(8) The locomotive mileage over the Hull Electric Co.'s line was 14,628 miles.

(9) The London St. Ry. has 11.68 miles of double track.

(10) The figures given are for the year ended June 30, 1903.

(11) The Montreal Park and Island Ry. has 12.75 miles of double track.

(12) The Montreal Street Ry. has 49.24 miles of double track.

(13) The locomotive mileage over the Montreal Terminal Ry. was 20,576 miles.

(14) The Niagara Falls Park and River Ry. has 11.43 miles of double track.

(15) Power supplied by the Niagara, St Catharines and Toronto Ry.

(16) The Ottawa E.R. has 17.95 miles of double track.

(19) There are 5 miles of double track on the Citadel division and 6 miles of double track on the Montmorency division of the

lines of the Quebec Ry., Light and Power Co. (18) The Sarnia St. Ry., the Toronto and Mimico Ry., and the Toronto and Scarboro Ry. lease their power.

(19) The returns from the Sherbrooke St. Ry. are incomplete.

(20) The Toronto Ry. has 44.77 miles of double track

(21) The Winnipeg St. Ry. has 5 miles of double track.

Electric Railway Notes.

The London Street Ry. has voluntarily raised the wages of its motormen and conductors from a maximum of $16\frac{1}{2}$ to 17 cents an hour.

The Port Arthur Street Ry. has started running its cars in the town of Fort William, Ont., on Sundays, despite the protest of the mayor of the latter town.

[APR., 1905.

The Winnipeg Electric Street Ry, has ordered three large forged steel patent water tube boilers, aggregating 2,000 h.p., from Babcock & Wilcox, Ltd., Montreal. The company installed two boilers of the same type about two years ago.

The Southwestern Traction Co. will be in the market shortly for 60 lb. steel rails, and angle plates for same; copper wire; standard ties; 30 ft. poles, six inch and eight inch tops; spikes, bolts, etc., for 15 miles of track. Material for two or three bridges will also be required, and the company is also looking for a heavier locomotive in exchange for the 10 ton one now in work upon construction work.

In the case against the Grand Valley Ry., for operating its cars on Sundays, the question will be raised whether the Dominion Parliament had power to enact Sec. 2, Chap. 32, 1904, which provides that all railways, whether steam or electric, situated entirely

JAMES PLAYFAIR, Pres. & Gen'l Mgr.

within one province, but, either entirely or in part declared to be for the general advantage of Canada, shall be under the jurisdiction of the provincial acts relative to Sunday labor.

Electric Ry. Finance, Meetings, Etc.

British Columbia Electric Ry.—Railway earnings for Jan.:—Vancouver, \$18,507; Vic-toria, \$10,449; Westminster, \$9,657; total, \$38,613, against \$34,095 for Feb., 1904; total railway and lighting earnings \$80,028, against \$73,902. Working expenses, \$40,088; re-newal funds, \$6,695; net income, \$33,245, against \$40,599 working expenses, \$5,988 renewal funds, and \$27,315 net income for Jan., 1904. Net earnings for seven months ended Jan. 31, \$205,667, against \$183,404.

The Cape Breton Electric Co. owns the electric lighting plant, ferry service and electric railway in Sydney, and the electric rail-

way connecting Sydney and North Syd It also owns one-half of the bonds and mon stock of the Sydney and Glace Bay of Gross earnings for year ended Dec. 31, 10 \$202,018.84; operating expenses, \$155,00 38; net earnings, \$46,350.46; fixed charge \$43,470.27; net profit \$2,000.10 \$43,470.27; net profit, \$2,880.19.

-Rail Halifax Electric Tramway Coearnings for Feb., \$7,188.71, against \$9,6 47 for Feb., 1904.

Hamilton Cataract, Power, Light and tion Co.-The annual meeting held Mar was a formal one, the only business acted being the presentation of the and report and the election of directors. officers and directors for the current year President I M Other President President, J. M. Gibson, K.C.; Vice pre-dent, Jas. Dixon; Treasurer, J. R. Moore Secretary, W. C. Hawkins; other director Jno. Dickenson, J. A. Kammerer, J. Sutherland. The gross earnings of the tion department for 1904 were \$335,500. Vice-Pi

The Hudson's Bay Company



Farming and Grazing Lands in Manitoba and the Northwest Territories

ON EASY TERMS OF PAYMENT

Town Lots for sale at Winnipeg, Ft. William, Edmonton, Prince Albert, etc.

The Company has General Stores at Winnipeg, Vancouver, Calgary, Edmonton, and other places where purchasers will find the best of goods at moderate prices.

Transportation by the Company's Steamers, brigades of boats and canoes throughout the Territories got traversed by railways.

Full information at the Company's Offices, Winnipeg, or 1 Lime St., London, E.C.

WILLIAMS & WILSON Sole Selling Agents for Leading Manufacturers of Machinery for= LOCOMOTIVE SHOPS PLANING MILLS CAR SHOPS MACHINE SHOPS 320, 322 and 324 ST. JAMES ST., = MONTREAL

MIDLAND TOWING & WRECKING CO., LTD., MIDLAND, ONT., CANADA First-Olass Tugs for Wrecking Both Towing and J. W. BENSON, Sec'y-Tr First-Olass Tugs for Wrecking, Raft Towing, etc. Steam Pumps, Divers, Jacks, Hawsers and Light

D. L. WHITE, Vice-President.

Hamilton, Grimsby and Beamsville Elec-tric Ry.—The annual meeting adjourned to the 22, from Jan. 23, was further adjourned the majority stock surphesed in 1904 by the G.T.R. had been acquired by the Hamilton Cataract Description Co. The Cataract, Power, Light and Traction Co. The president, J. W. Nesbitt, K.C.; Vice-President, J. Dicken-it, K.C.; Vice-President, J. Dicken-Son; Treasurer, Jno. Moodie; other directors: land, J. G. Gauld; Secretary, G. Waller; Auditor, W. E. Boyd.

International Ry. Co.—Owing to a change in the controlling interests of the International Traction bolding coma the controlling interests of the Internation-al Traction Co., which is the holding com-electric railways in the Niagara peninsula, the Canadian as well as the U.S. side of the Niagara Diversion directors and officers the Niagara River, new directors and officers have been slotted. have been elected. The new board and offi-cers of the I. Ry. Co. are as follows: Presi-dent, H. T. Ry. Co. are as follows: Vicedent, H. J. Pierce, Buffalo, N.Y.; Vice-President, D. S. Lamont; other directors: I. Bolser, T. G. Blackstock, Toronto; G. Mitten, T. D. Culyer, C. Steele, R. L. Freyer, A. M. Robinson, D. O'Dey, E. T. Stotesbury, Slocum.

The Kingston, Portsmouth and Cataraqui the bond-Ricetric Ry. has been closed down, the bond-bolders hard the bondbolders having taken possession, and being unable to obtain a from the Kingston, unable to obtain power from the Kingston, Out. City Council to which the council Ont., City Council at a rate which the council says is less than cost. The indebtedness is that the boodt at 150,000, and it is stated that the bondholders have not received any interest for some years.

Levis County Ry.—The financial difficulties in which this company are involved culmin-arrangement with the failure to carry out the arrangement with the company supplying power. The power supply was cut off and nent of the financial position. We are ad-ports that there is no truth in the press re-the the line was to be taken over by the Messre British was to be taken over by

the Messrs. King. Feb.

Montreal Street Ry.—Gross earnings for eb., \$185 set. Reb., \$185,864; net earnings 101 fixed charges, \$20,477.54; surplus, \$17,968.38; 84, against \$168,685.29 gross; \$37,264.70 surplus for Feb 1004 Cross earnings for surplus for Feb., 1904. Gross earnings for five month. Feb., 1904. Gross earnings for a \$1 027.214.06; we months ended Feb. 28, \$1,027,214.06; 28; against \$325,335.59; surplus, \$229,530.-uet, against \$937,821.56 gross; \$319,563.75 and \$223,775.20 surplus for same period and \$233,775.30 surplus for same period

Niagara, St. Catharines and Toronto By.-1088 carning for a loc 31, 190 Gross earnings for year ended Dec. 31, 1904, 223,924. Tet for year ended Dec. 31, 1904, Sandwich, Windsor and Amherstburg Ry. Pollowing on the rest directors for

Following are the officers and directors for the current are the officers and directors for the A Everett; the Current year: President, H. A. Everett; Vice-President and Treasurer, J. C. Hutchins; Assistant And Treasurer, J. other di-Vice-President and Treasurer, J. C. Hutchins, Assistant Auditor, Jos. Bampton; other di-cetors: E. W. Moore, R. B. Van Courtlandt, A. E. Peters; Auditor, I. Fullerton; Man-ger, Jas. Anderson

Toronto Ry.—Car earnings for Feb., \$185,-The Toronto Ry.—Car earnings for Feb., \$185,-The Toronto City Council has given notice that it will apply at the current session of the Toronto City Council has given nouce the Ontario Legislature for an act authoriz-ing it to take over and expropriate the proping it to take over and expropriate the propety, rights and franchises of the Toronto Ry, Co., upon the terms and conditions in vides for the citw's taking over the undervides for the agreement with the company put taking. It is asked that the expropriation at not be made until it has been approved shall not be made until it has been approved

Grain Elevator Notes.

The Point Edward Elevator Co., Point Edward, Ont., has renewed a chattel mortgage for \$100,000 to the London and Western Trusts Co.

The Canadian Malting Co. of Toronto has purchased two acres of land at Winnipeg, upon which it proposes to erect an elevator of 150,000 bush. capacity, and malting houses.

In regard to the proposed Government elevator at Port Colborne, Ont., the Minister of Railways and Canals stated in the House of Commons recently that it would be constructed of concrete and iron, and would be of the most modern design. The total cost would be \$1,100,000, and a vote of \$310,000 on account was passed. Replying to questions as to the general policy of the Government upon elevators at this point the Minister stated that the construction of the elevator was the natural sequence of the construction of the breakwater and the other improvements at Port Colborne. The Government deemed it in the interests of the Dominion, in order to prevent one or two transportation companies getting control of the water-way. Only a limited number of elevators could be provided there, and if one or two private companies constructed elevators there they would obtain exclusive control. Several applications had been made for sites from private corporations, and it was deemed to be imperative in the public interest that the Government should construct a large elevator there, which would be open to the general public upon conditions laid down by regulations. By this means all interested in the transportation question would have an opportunity of availing themselves of the elevator facilities.

SHIPPING MATTERS.

River and Lake Officers for 1905

The following appointments have been made by the principal navigation companies interested in the St. Lawrence River and Great Lakes trade, for their various vessels for the season of 1905. In the first column is given the name of the vessel, in the second that of the captain, and in the third that of the chief engineer:

CALVIN CO., GARDEN ISLAND, ONT.

Burma (schooner) Ceylon (schooner) D. D. Calvin India Simla	J. Ferguson J. Achee H. N. Smith Chs. Coons A. H. Malone	Jno . Ken nedy T. C. Smith R. H. Veech
Simia	A. II. Malone	10 11 10 10

CANADA ATLA	NTIC TRANSIT	co.,	OTTAWA,	ONT.
Arthur Orr	H. Jaenke			
George N. Orr	W. Baxter			
Ottawa	Alex. Birnie			

CANADIAN LAKE AN	ID OCEAN NAVIGATI	ON CO., TORONTO
A. E. Ames	E. L. Stephen	S. Gillespie
H. M. Pellatt	G. A. Brian	W. Byers
J. H. Plummer	G. W. Mackey	R. Chalmers
Turret Cape	A. McIntyre	W. H. Durham
Turret Chief	M. McPhee	R. Dugia
Turret Court	Jas Black	C. J. McSorley
CANADIAN NORT	hwest steamship	CO., TORONTO.
Neebing	Jno. Ewart	A. F. Foote
C.P.R. UPPER L	AKE FLEET, OWEN	SOUND, ONT.
Alberta	L. Payette	A. Cameron
Athabasca	Geo. McDougall	W. McKay
Manitoba	E. B. Anderson	W. Lewis

CENTRAL CANAL	A COAL	co.,	BROCKVILLE	, ONT
Samuel Marshall	Jno. Bou	char	d H. Ger	то₩

J.	AND	т.	CONLON,	THOROLD,	ONT

Erin	P. Sumvan
F. L. Danforth	
(schooner)	B. McIntyre

J. B. FAIRGRIEVE & CO., HAMILTON, ONT. W.H.Cunningham J. V. Trowell Arabian.

G.T.R. CAR FERRIES, WINDS OR, ONT.				
Great Western {	M. Bausetto —. Baillargeon	W. Belson		
Huron	H. Oldenberg O. Lalonde F. D. Forrest	Jos. Ladds.		
Lansdowne	F. D. Forrest Jno. Jackson	Jos. Taylor		
HAMILTON AND	FORT WILLIAM NA HAMILTON, ONT.	VIGATION CO.,		
Donnacona Strathcona	J. W. Mawdsley Jno. Irving	J. S. Dugeid W. Harman		
HAMILTON AND M	IONTREAL NAVIGAT TON, ONT.	TION CO., HAMIL-		
Lake Michigan	J. H. Fitzgerald			
LAKE ONTARIO AN	D BAY OF QUINTE KINGSTON, ONT.	STEAMBOAT CO.,		
Aletha Caspian	J. A. Roys W. Bloomfield	C. McSorley		
North King	J. J. Jarrell	O. J. Hickey		
J. & . Haddington	J. T. MATHEWS, TO Jas. Delaney	RONTO R. W. Ross		
MERCI	HANTS' LINE, MONT	REAL.		
City of Montreal	A. Lefebvre	F. Hamelin E. Hamelin		
Cuba Melbourne	A. Monpitit H. Vaughn	r, nameni		
	VIGATION CO., MI	DLAND, ONT.		
Midland King V Midland Queen	V.H.Featherstoneh F. Burke	augh E. Abney		
	AND WRECKING CO	D., MIDLAND, ONT.		
Magnolia Menodora	Jos. Clarke C. Gould E. Burke	Jno. Doran H. Chester		
Metamora	E. Burke	F. Chester		
Minitaga	Geo. Kinnel R. Burke	Jno. Kinnel Jas. McGregor		
Reliance Traveler	Jas. Tyndal	F. Goodwin		
NEW ONTARIO	STEAMSHIP CO., H.			
Neepawah Wahcondah	O. Pattenade H. Zealand	Jas. Smeaton Jno. Waller		
NIAGAR	A NAVIGATION CO.,			
Chicora	R. Clapp J. McGiffin	H. Parker G. Arnold A. F. Woodward		
Chippewa Corona	J. McGiffin H. Solmes	A. F. Woodward		
Ongiara	H. Solmes H. McIntyre	C. Merriman		
NORTHERN NAVI	GATION CO. OF O WOOD, ONT.	NTARIO, COLLING-		
Britannic Oiter of Collingwo	M. McLean	I. Boyd C. Robertson		
City of Collingwo City of Midland City of Toronto	F. G. Moles	C. Robertson S. Burgess		
City of Toronto	F. G. Moles P. Dusome	B. F. Osborne J. W. Aston F. Brisbane W. Whipps A. Morton		
Germanic Huronic		F. Brisbane		
Majestic	R. D. Foote G. H. Playter E. Robertson	W. Whipps		
Monarch United Empire	E. Robertson A. L. Campbell	A. Morton H. Myler		
ST. LAWRENCE AND CHICAGO STEAM NAVIGATION CO., TORONTO.				
Algonquin	W. H. Wright	J. W. Taylor W. Harwood		
Iroquois	Jas. McNaught	W. Harwood Jas. Findlay		
Rosedale W. D. Matthews	P. J. Shaw Jas. Ewart	E. J. O'Dell		
W. J. PULLING, WINDSOR, ONT.				
Juno	A. McInnes	S. Kerby		
Sligo (schooner) Vesta	Jno. McPherson N. McDonald	ļ		
VICTORIA LUMBER CO., TORONTO.				

vesta	N. MCDonaid	
VICTO	RIA LUMBER CO.	
Charlton (tug)	D. Burke	J. Ridinim
Reginald (tug) Tadousac	F. Luna n S. Hill	J. G. Fisher

Suspension of Canal Tolls.

We are advised by the Department of Railways and Canals that the abolition of the canal tolls is to be continued for this year's season of navigation. The council of the Montreal Board of Trade recently took the matter up and wrote the Government asking that the free canals be maintained, and further, that a deputation would be sent to Ottawa to urge the contention if it were necessary. In reply, the Premier wrote:—"All I can say at present is that this subject is well known to us, and there is no necessity for any depu-tation." All tolls on the canals were, by orders-in-council of April 27, and May 19, 1903, abolished for the seasons of 1903 and 1904. In the fiscal year ended June 30, 1902, the amount of tolls collected was \$236,942.72, and from July 1, 1902, to the end of that season of navigation the tolls amounted to \$159,-050 56 The total target The total tonnage passing through 959.56. the canals during the season of navigation of 1903 was 9,203,817 tons, against 7,513,-797 tons in 1902. These figures include the tonnage passing through the Sault Ste. Marie canal, which was 5,511 868 tons in 1903, and 4,729, 268 tons in 1902.

THE RAILWAY AND SHIPPING WORLD.

3rd March, 1905.



This Company has 7,50,000 acres of selected lands in Manitoba and Assiniboia which offer excellent opportunities to settlers and investors who desire to secure good lands in well-settled districts. These lands are on sale at the Company's Office at Winnipeg, and at the various land agencies of the Canadian Pacific Railway Company.

Niagara Navigation Co.'s New Steamer.

The Niagara Navigation Co. has placed an order for the construction of a new steel steamexpress passenger service between Toronto been designed on the same general lines as the Chippewa and Corona, but differs from screws instead of paddle wheels, and will the most modern lines to afford the greatest gers. The additional comfort for passen-The additional confort for passen-

The steamer will have the following dimenine steamer will have the following beam, sions: length, 317 ft. 6 in. over all; beam, 51 ft., 8 ins.; depth, 15 ft., moulded; draught, 10 ft. cup will be driven by twin screws, 10 ft. She will be driven by twin screws, power being will be the two sets of engines power being supplied by two sets of engines of the vertical inverted, direct acting, quad-ruple expansion type, balanced on the Varrow, chlick and Turocht water having cylin-Schlick and Tweedy system, having cylin-by 30 in. stroke. Steam will be supplied by stroke working pressix Scotch marine boilers at a working pressure of 210 lbs. The Ellis & Eaves tion system of forced draught will be fitted. The steamer is to have a guaranteed speed of 221 mit and a steamer is to have a guaranteed speed of 221 miles an hour, so that in all probabil-ity the set of making a ity the engines will be capable of making a speed of a barry of the hull speed of about 201 knots an hour. ed into situated of steel, and will be divided into eight compartments by seven water-tight hand the practice of the prac tight bulkheads, thus rendering her practi-smoke start. The steamer will have two snoke stacks similar to the other vessels of

the line. The vessel is planned on the lines of the day service at splanned type of steamers, havday service observation type of steamers, hav-ing four principal to the served of the server of the promenade dock and promenade deck, and bower or orlop deck below the main deck. There will be three gangways on each side, the forward of the forward of the second express. the forward ones for passengers' baggage and win aft one for passengers only. This latter the aft one for passengers only. will lead directly into the entrance hall on the main deck, at the forward end of which will be found the purser's office, a parcel passengers have to come in contact. At the passengers have to come in contact. At the aft end will be the ladies' retiring room, and converience specially fitted for the comfort and convenience of ladies, and will include a number of ladies, and will include a number of new features. At the forward end a staircase 7 ft. wide will connect the The dining a staircase 7 ft. wide will connect The dining a staircase 7 ft. wide will connect The dining-room will be forward on the main deck, and room will be forward on the main tion windows be fitted with large observation windows on each side, so that an unin-terrupted view may be had. It will have a be of steel covered with wood, and interlocked be of steel covered with wood, and interlocked nubber tilling the a flooring in rubber tiling will be used as a flooring in several parts of the passenseveral parts of the vessel devoted to passendeck the principal feature will be the general saloon, which will extend the full width of the steamer will be a particularly of the son, which will extend the full with handsome apartment, and the sides, instead being straight, will consist of a series of all windows so that views may be had bow windows, so that views may be had ahead and astern as well as straight out. At each bay seats will be provided so that small will be finished or together. Two of the bays will be finished as private parlors, which will to available for letting to parties who desire be available for letting to parties which will to be alone. The upper promenade deck, the general salore of well as by stairways from the general salore of well as by stairways from outside on the promenade deck, will extend over the whole vessel, instead of end-ing just former the whole vessel, instead of ending just forward of the wheelhouse as in be inside the lifeboots and the entire be inside this type. The rail win width of the lifeboats, and the entire sengers. The deck will be available for pas-house, and the pilot's room will be on this

all Alla

deck. A light shade deck amidships will give shelter over this deck. The space over the engine room, instead of being closed in with steel plates, will be surrounded with a framework in which plate glass sides will be fixed so as to enable passengers to have a view of the machinery. On the lower or orlop deck will be found the crews' quarters, kitchens, smoking room, engines and boilers, etc. The whole of the interior has been planned so as to provide the greatest accommodation for the passengers, and for the convenience of the crew in working the steamer.

The decorations will be particularly striking. The entrance hall will have a heavy beam ceiling; the main stairway will be in cathedral oak; the dining-room in mahogany, and other portions of the passenger accommodation in weathered and quartered oak. The designs show some very fine effects and will present a rich and artistic appearance. The furnishings of the various rooms will be in harmony with the general decorative design and color scheme.

The steamer will be constructed by the Canadian Shipbuilding Co., Toronto, of which F. Nicholls is President, and A. Angstrom, General Manager. It will be ready for service in 1906.

The Lake Freight Outlook

A Winnipeg correspondent writes us as follows:—"The outlook for the coming season is for a fair business for the bulk freighters, as stocks of wheat, etc., at Port Arthur and Fort William will be about the same as last year at the opening, and reports from the twin ports are that the opening this season should be fully three weeks earlier than a year ago, which would bring it about the middle of April, as the past winter has been comparatively mild and short, and the ice is a great deal lighter than in former years.

"Stocks of wheat, etc., will probably amount to 10,000,000 bush., and first trip rates of 2 cents a bushel to Georgian Bay and Lake Huron ports are already being quoted by vessel owners, with $\frac{1}{2}$ c. over for Buffalo. Montreal rates will be $\frac{51}{2}$ to 6c., and vessel men expect to hold these rates until at least the second month after opening, but as there are now less than 8,000,000 bush. of wheat left in the interior, according to the Northwest Grain Dealers' Association, rates will have a tendency to drop after the first month, especially the Buffalo rate, which will be in competition with U.S. vessels, which handle a large percentage of coal into the twin ports and which will be eager for return cargoes.

"The coal tonnage will show a decided increase during the coming season as the past winter has left the docks with but a small reserve, and owing to the vast increase in population west of the lakes which is expected this spring, the coal handlers are all figuring on increasing their facilities fully 25%. Rates on coal have in the past been considered unsatisfactory by the vessel interests, owing to the delays in discharging at this end, and an effort is being made to place rates on a higher level during 1905.

"The package freighters are watching with considerable interest the advent of a U.S. line of package freighters between Buffalo and Fort William, in connection with the C.P.R., as this business has in the past been the cream of the Montreal-Fort William liners, but as the package business has been rapidly on the increase during the past three years the new line will probably prove a successful venture and will not affect the Canadian liners to any great extent. The export flour trade should show a decided increase the

coming season, as wheat values are slowly reaching the export level, and the Canadian millers are again figuring on securing their share of this trade, which in view of the shortage of milling wheat now prevailing in the Western States will keep the Minneapolis millers out of this trade for some time.

"The U. S. Treasury Department ruling on the matter of milling Canadian wheat in bond has not had the effect of cleaning up the Canadian surplus, as considerably less than 1,000,000 bush. were diverted from Canadian channels in this manner."

In connection with the above it may be mentioned that the grain carriers section of the Dominion Marine Association have agreed on a minimum rate from Fort William and Port Arthur to Georgian Bay ports of 2c. a bushel, and from Fort William and Port Arthur to Montreal of 6c. a bushel. The latter rate may include marine insurance. The Montreal Transportation Co. is report-

The Montreal Transportation Co. is reported to have chartered three of its boats to carry grain cargoes on the opening of navigation from Fort William to Montreal, at 6c. a bush., including marine insurance.

Notices to Mariners.

The Dominion Department of Marine has issued the following notices to mariners:—

No. 7. Feb. 4.—British Columbia—Washington—18. Submarine telephone cable laid between Vancouver Island and the mainland.

No. 9. Feb. 8.—Ontario—24. Lake of the Woods, mouth of Rainy River, new range lighthouses.

No. 10. Feb. 13.—Ontario—27. Lake Ontario, Simcoe Island, Nine Mile point lightstation, change in fog alarm. 28. Niagara River mouth, Niagara-on-the-Lake, fog alarm established.

No. 11. Feb. 22.—New Brunswick—30. South coast, Bay of Fundy, Passamaquoddy Bay, St. Andrew's bar, Navy Island, lighthouse established. Nova Scotia—31. Strait of Northumberland, Pictou Island, west end, character of new light.

No. 12. Feb. 23.—British Columbia—32. Fisher Channel, Walbran rock, buoy established. 33. Chatham Sound, Inskip passage, Port Simpson entrance, harbor reef, buoy established.

No. 13. Feb. 28.—British Columbia—34. Strait of Georgia, Entrance Island, temporary light.

The United States Hydrographic Department has issued an index to the notices to Mariners issued by it during 1904.

Maritime Provinces and Newfoundland.

The Reid Newfoundland Co., we are advised, has no present intention of placing another steamer on the route between Sydney, N.S., and Port-aux-Basques, Nfid., as stated in recent press reports.

We are advised that while plans and tenders have been under consideration, the Canada Atlantic and Plant Steamship Co. has not arrived at a decision respecting the new steamer which it is proposed to order.

The Eastern Steamship Co. has placed an order in the U.S. for two turbine steamers, 300 ft. long, and to have a speed of 20 knots an hour. One of the steamers is intended for the run between Boston, Mass., and St. John, N.B.

The marine railway at North Sydney, N.S., has been purchased for \$25,000 by a local syndicate, the composition of which has not

[APR., 1905



been disclosed. The purchasers, it is stated, will improve it available for large the plant and make it available for larger vessels.

The report of the Eastern Steamship Co. the report of the Eastern Steamsnip Co. shows earnings for 1904 of \$1,447,783; oper-surplus, \$210,505. A dividend of 3% was company has a balance of \$120,000. The company has a consistent of \$3,000,000.

company has a capital of \$3,000,000.

The Tidal and Current Survey Branch of the Tidal and Current Survey Brancu of tables for Charlottetown, P.E.I.; Pictou and St. Paul v. for Northumberland Strait, the southwestern side of the Derland Strait, the southwestern side of the Gulf of St. Lawrence, the north coast of Prince Edward Island and Cabot

The Strathern Shipping Co. has been in-Act, with a capital of \$16,000 and offices at Halifay N Capital of \$16,000 and offices at here the strath-

Halifax, N.S., to acquire the barque Strath-in Canada Tri a general shipping business are: H. Ganada. The provisional directors are: W. McInnes, W. H. Fulton, J. B. Kenny, T. The million of Halifax.

The winter steamers, Minto and Stanley, operating between Pictou, N.S., and George-town Dr. between Pictou, N.S., and Georgeover a month prior to Mar. 3, on which date two, p.E.I., were unable to leave port for they got with prior to Mar. 3, on which date they got within two miles of each other, a heavy ice for the two miles of each other, a The Stanley's heavy ice field lying between. The Stanley's passengers and freight were transferred across the ice to and freight were transferred across the ice to the Minto, and so reached Pictou. The service was maintained in this way for some days maintained in this way for

some days until the steamers were frozen in. The fleet of the Dominion Coal Co. fcr 05 will be compared to the Comming Cobban, 1905 will consist of its own steamers Cobban, Louisburg Construction Reprovista and Ca-Louisburg, Cape Breton, Bonavista and Ca-couna; the chartered steamer Turpin for the coasting traditional the following charcoasting trade alone; and the following char-tered coat and the following chartered coal carrying steamers: Catalone, Mys-tic, Dominion, Troudengold, Tancred, Britannic, Harrod, Ovidia, Smyrna and James Ross. The latter is a new steamer now being built at Middleshare and will have

a capacity of 7000-Tees, Eng., and will have a capacity of 7,000 tons.

The Interprovincial Navigation Co. of Canada is composed of residents of Camp-bellton N D bellton, N.B., and the counties of Bonaven-ture and Counties of Bonavenbellton, N.B., and the counties of Bonaven-ture, N.B., and the counties of Bonaven-F. S. Blair and D. E. Richards, of Camp-the Baie de company proposes to develop str. Admiral plied for years with Dalhousie, ethy, as the westerly terminus. The east-company's str. Lady Eileen will leave Campcompany's str. Lady Eileen will leave Campbellton every Wednesday and Saturday, upon from Montreal, but later in the season the the arrival of the I.C.R. Maritime express Saturday trip will be sup in connection with Soun Montreal, but later in the season the Saturday trip will be run in connection with the Ocean Limited. The tourist travel into this district heat to the tourist travel wears, this district has been growing for some years, and a more the solution of the and a more modern and commodious steamer was necessary to be accom-Mas necessary in order to provide the accom-modation down to the Lady Eileen is a modation demanded. The Lady Eileen is a steel twin screw steamer, built at Glasgow, youland house the full strength dimensions:-Scotland, having the following dimensions:-length, between the following intersions 168 ft.; over length, between perpendiculars, 168 ft.; over all, 185 ft. best of the depth. moulded all, 185 ft.; breadth, 31 ft.; depth, moulded to main deal, readth, 31 ft.; depth, moulded to 185 ft.; breadth, 31 ft.; depth, monucca She is fitted with steam steering gear and capstan, steer with steam steering gear and capstan, steam with steam steering gear and handling carro with the steam elevator for handling carro with the steam heated; is handling cargo quickly; steam heated; is is provided with a 5 000 candle power search is provided throughout with electric lignt and light. She with a 5,000 candle power search light. She has sleeping accommodation for and a hold capacity for 250 tons of cargo. and ^{urst}-class and 50 second-class passense. She has the capacity for 350 tons of cargo. She has two sets of triple expansion engines, cylinders 10 in 20 in diameter, cylinders, 12 in., 20 in. and 32 in. diameter, by 24 in state by 24 in. stroke, steam being supplied by two Scotch marine boilers 12 ft. 6 in. diam-ter by 10 the arine boilers 12 ft. 6 in. diameter by 10 ft. long, at a working pressure of eter by 10 ft. long, at a working pressure of ed by Capt. L. J. Pouliott, who for the past route.

Province of Quebec Shipping.

The Montreal Transportation Co. has chartered two of its barges to carry pulpwood.

The new str. Montreal will be placed in service by the Richelieu and Ontario Navi-gation Co. May 23, on the run between Montreal and Quebec.

A movement has been inaugurated in Montreal to have that port declared to be a free and national port under Government supervision, and a petition asking for this is being arranged for.

The Quebec Steamship Co. has been voted a subsidy of £4,500 for the first year and £2,500 for the second year, from the Bermuda Legislature, in connection with the improvement of the New York-Bermuda service, by the addition of the new twin screw str. Bermudian.

The Richelieu and Ontario Navigation Co. has offered to sell to the Montreal City Council the ferry steamer Le Cultivateur, and the whole ferry outfit for \$40,000, so that the city could operate the ferry between Montreal and St. Helen's Island, or the company will continue to operate the ferry for a bonus of \$2,000 a year.

The Dominion Government is being asked to continue the subsidy of \$10,000 a year to Davis & Son, of Levis, Que., in consideration of their keeping the wrecking steamer Lord Strathcona and plant in readiness to assist vessels stranded above or below Quebec, on such conditions of service as the Government may deem reasonable.

Cunningham and Wells (Ltd.) has been incorporated under the Dominion Companies' Act, with a capital of \$250,000, and offices at Montreal, to acquire the business of Cunningham & Wells, carters and carriers, and in connection therewith to operate barges, tugs and steamers. The provisional direct-ors are: Jno., F. E., and W. N. Cunningham; W. J. Wells and M. Armstrong, of Montreal.

G. Greene, jr., a New York engineer, has been engaged by the Department of Marine to examine the plans of the sheds which it is proposed to erect at Montreal. The plans were prepared by J. Kennedy, the Harbor Commissioner's engineer, and after having been approved by that body, some objection was taken to them by certain of the shipping interests, and a good deal of friction resulted.

The Gulf Whaling Co. has been incorporated under the Dominion Companies' Act, with a capital of \$295,000, and offices at Montreal, to purchase and operate steam and other vessels, construct wharves, docks, etc., and to engage in whaling and general trading operations in Canada. The pro-visional directors are T. Gauthier, P. Galibert, Rolland Prefontaine, Montreal; B. Sawyer, N. Smellie, Westmount, Que.

The str. China, hitherto operated in the Anchor Line of Buffalo, N.Y., has been purchased by Canadian owners, and will be run during the coming season in the line of steamers operated by G. A. Jaques & Co., Mon-treal. The China will be run between Cleveland, Toledo, Ohio, and Montreal. The China is an iron screw steamer, built at Buffalo, N.Y. in 1871, having the following dimensions: length, 210 ft.; breadth, 32 ft.; depth, 14 ft.; gross tonnage, 1,239 tons; net tonnage, 931 tons. The steamer will be overhauled and refitted with new boilers, and a new fore and aft engine, before being put on the route.

Ontario and the Great Lakes.

F. S. Spence has been elected Chairman, and I. T. Matthews, Vice-Chairman, of the Toronto Harbor Commissioners for the current year.

The steam tug Queen, heretofore engaged on Lake Nipissing, has been purchased by W. B. McLean & Co., and has been transferred to Trout Lake

The Dominion Government is preparing to erect a dock, wharf, storehouses and other buildings at Windsor, Ont., as a permanent depot for the lake cruiser Vigilant.

Negotiations are reported in progress with the Thousand Islands Steamboat Co. for the purchase of its str. Pierrepont, at present laid up at Cornwall, Ont. The price offered is reported to be \$12,000.

The str. City of Grand Rapids has been purchased by Capt. Averill, of Cleveland, Ohio, who purposes placing her on the run between that city and Port Stanley, Rondeau and other points on the Ontario shore of Lake Erie.

The Ontario and Quebec Navigation Co. has been incorporated under the Ontario Companies' Act, with a capital of \$50,000, and offices at Picton, Ont., to carry on a general transportation business. The provisional di-rectors are B. R., Jas. DeC., and R. G. K. Hepburn, of Picton, Ont.

The Farrar Transportation Co., Colling-wood, Ont., declared a dividend of 10% for the year 1904, and decided to purchase a second steamer of full canal size. The direc-tors for the current year are: Capts. Scott, F. A. Bassett, and Pearson, T. Wylie, —. Ferris, W. R. Roland, W. Carmichael, G. E. Fair, and - McCallum.

The Marine Transportation Co. of Ogdensburg has been incorporated under the laws of the State of New York, with a capital of \$20,000, to operate steamers on the Great Lakes and on the St. Lawrence River, from Ogdensburg, New York, to Prescott, Ont. The directors include G. L. Ryan, of Ogdensburg, N.Y., and H. J. Bartlett, of Orillia, Ont.

The Canadian Ore Dock Co. has been incorporated under the Ontario Companies' Act, with a capital of \$500,000, and offices at Toronto, to construct docks, wharves, etc., at Port Arthur, Ont. The company is being organized in connection with the blast furnaces, etc., which it is proposed to construct at Port Arthur, in which Mackenzie, Mann & Co. are interested.

W. P. Hinton, General Freight and Pas-senger Agent, Canada Atlantic Ry., Ottawa, writes that the "actual result of elevation to boats from Fort William and Port Arthur to Depot Harbor, Ont., during last season of navigation was 7,310,213 bush., or half of the entire quantity of Canadian grain mov-ed to Canadian ports." This is in correction of figures published in our last issue.

A clam dredge was launched at the Polson Iron Works, Toronto, Mar. 4, for use at To-ronto Island. It is 87 ft. long, 35 ft. beam, and 7.1 ft. deep. The hull is divided into and 7.1 ft. deep. seven bulkheads, three of which are water-tight; and is planked with 6 in. boards on the sides, and 4 in. boards on the bottom. The dredge will carry a 40 ft. dipper crane, operated by an independent hoisting engine.

The Montreal and Lake Erie Steamship Co. has been incorporated under the Dominion Companies' Act, with a capital of \$180,-000 and offices at Toronto, to carry on a general navigation business, wreckage and salvage operations, and to construct wharves, etc. The provisional directors are: James Carruthers, C. A. Jaques, Montreal; J. H. Hall, Ottawa; W. D. Matthews, F. D. Benjamin, S. Samuel, C. W. Bond, and Geo. Summerville, Toronto.

The Algoma Central and Hudson Bay Ry. has decided to operate a line of steamers between Toledo, Ohio; Owen Sound, Parry Sound and intermediate ports along the north shore of Georgian Bay, to Sault Ste. Marie, Ont., during the summer. The King Edward will run from Toledo to Sault Ste Marie; and the Ossifrage and Minnie M. will run between



Sault Ste, Marie and Owen Sound, calling at intermediate points, and making connection with the prints, and making connection with the King Edward at Killarney, Ont.

The Ottawa Transportation Co. is build-about 120 ft. long, 24 ft. beam, and 9 ft. depth bold. The built of B.C. fr. of hold. The hulls are being built of B.C. fir. The barges will be ready for the opening of the company's trade havigation, and are for the company's trade between Ottawa and Montreal. The com-any's float two and Montreal. pany's fleet this year will consist of five tugs and 64 harmer the principal freight from and 64 barges. Its principal freight from the return freight on the consists of lumber, and

the return freight is mainly coal and sulphur. A small A syndicate represented by J. J. Boland & Co. Buffalo, N.Y., has purchased the steamers Line, and the str. Juniata of the old Ward Line, and it is stated that they will be oper-Line, and the str. Juniata of the old Ancient ated as the constant of the will be operated as the Canadian Fort William line. starting point of the line will be at Buffalo, River Dorts Burley, Detroit and St. Clair River ports, or any other ports where a suffi-ciency of the state of wer ports, or any other ports where a sum-ciency of package freight business may be William, Ont., where connection will be made the sum of th exclusively with the C.P.R. The Juniata is way of tension which requires much in the way of fepair, and when the repairs are com-

Preted she will be named the Winnipeg. The annual meeting of the Rideau Lakes Navigation Co. was held at Kingston, Ont., Mar. 8 after of the Rideau terms in the second sec officers and adjournment from Feb. 8. The ar, 8, after adjournment from Feb. 6. And officers and directors for the current year are:--president of the current year. are: President and General Manager, Capt. D. Noonan, Kingston; Vice-President and other ary-Treasurer, C. Adams, Toronto; J. H. Adams, Toronto, and E. E. Fleming, \$100,000, of which \$60,000 has been paid up. Rident two steamers-Rideau King and deau Ouser Steamers-Rideau King and Rideau Queen and carries on a regular passenser and freight business between Kingand freight business between the set of the Pany has the Rideau Canar and pany has report states that the com-ion, N.Y. this are run its steamers to Clay-the N.Y. this are run its steamers to the trains of

In, N.Y., this season, to meet the trains of The New York Central and Hudson River Rd. The Northern Navigation Co.'s officers and disagents met in Collingwood recently, and dis-cused plans for the participation of the partici services to be the forthcoming season. The Frvices to be given include the following: from Collingwood to Sault Ste. Marie, via same route The Sound, returning by the the route The Sound, returning by the urdays, to be most by the steamers City of undays, to be made by the steamers City of Germanic; Collingwood, City of Midland, and Germanic; let and French Diversion Diversion with the steamers City of statement of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the statement of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the steamers City of the steamers City of Midland, and Germanic; let and French Diversion of the steamers City of the let and French River, regular trips will be made by the Diverties from Collingwood and French River, regular trips will be to Penetanguishene and Parry Sound, contin-and to Point and Parry Sound, continwing to point au Baril, three days a week, sania to point au Baril, three days a week, Sania to points on Lake Superior, regular trips and Huronic United Empire and Monarch; by Huronic, United Empire and Monarch; edo and Sault e will be opened between Toedo and Sault Ste Marie, calling at Windsor, Detroit, Sartis Contract, Killarney and

Detroit, Sarnia, Goderich, Killarney and Petitice, by the str. Majestic. Petitions have been presented to the House of Commons on behalf of the York County against the Dassing of an act to incorporate against the City of Toronto, protesting the Canadian County of an act to incorporate the Canadian Canals Corporation to construct

a canadian Canals Corporation to construct Bayto Lake Ontage railways from Georgian to the passing of the bill through committee representing various municipalities in York representing various municipalities in York sion Association recently waited on the Govto ment to men ennance in a sociation, recently waited on the Gov-ennance in the to urge a project of canal extension construction of a canal from Lake Simcoe, about time miles to Aurora by way of Holabout time miles to Aurora, by way of Hol-to enable the products of these towns to enter to enable the products of these towns to enter

the Trent Valley Canal at Beaverton, and get an outlet by water transport. Other projects which are suggested are to extend a canal from Lake Sincoe to Schomberg, to connect Sutton by a canal with the lake, and to deepen the Holland River.

An examination of the Ottawa-Georgian Bay navigation route has been undertaken by the Public Works Department and surveys are now under way. This is the first thorough examination of the project ever undertaken. W. Shanley made a partial survey and submitted a report to the Legislative Assembly of Canada in 1858, and T. C. Clarke made another partial survey and reported in 1860. Both of these surveys were for a 12 ft. barge The present examination is to navigation. determine the excavation and structures necessary and the right-of-way required for a navigation of not less than 22 ft. in depth. The line from Montreal to Georgian Bay, 430 miles, is divided into three districts, the first of which is from French River to Des Joachines in charge of S. J. Chapleau, District Engineer; the second district extending to Ottawa is under E. J. Rainboth, District Engineer, and the third extending to Montreal under C. R. Coutlee, District Engineer. A. St. Laurent is Engineer in charge at Ottawa, and E. D. Lafleur, Chief Engineer of Public Works, is the President of the Board, which is constituted of the engineers named. It is hoped to complete the field work this year. Ťhe route of the proposed canal extends from the mouth of the French River to Montreal. It follows the French River and Lake Nipissing; passes, at the height of land, through Trout, Turtle and Talon Lakes; follows the Mattawan River to its junction with the Ottawa, thence down the Ottawa as far as Montreal, leaving the bed of the river occasionally to evade difficult points. Sixty-two miles of this route having been carefully surveyed in 1901, there remained 368 miles to be covered by the new survey. It was decided from the beginning that the information gathered to study the feasibility of the route, to prepare plans and make a close estimate of the cost of the whole route, should be entirely original, and that old plans from old, partial surveys should be used only as preliminary information and for general guidance.

Manitoba and Northwest Territories.

A deputation from Winnipeg, Brandon and other points in Manitoba, recently waited on the Dominion Government urging the dredging of the Assiniboine River between Winnipeg and Brandon.

P. Paradis, Dominion Government engineer, has concluded an inspection of the Saskatchewan River at Prince Albert, Sask., with a view of reporting as to the work necessary to be done in order to improve the navigation.

The Hudson's Bay Co.'s str. Stork, which left Moose Factory, Ont., on Hudson's Bay, for London, Eng., in Sept., 1904, and on which re-insurances at 75 guineas per cent. premium were effected, owing to her non-arrival, was caught in the ice in Hudson's Straits, and returned to the bay to winter. Direct news of the vessel reached Winnipeg by a courier from the ship, Feb. 27. The last occasion on which the company's steamer had to winter in the bay was in 1891.

B.C. and Pacific Coast Shipping.

The Dominion Government steamer Quadra is being given a pretty general overhaul at Esquimalt, B.C.

A large railway car ferry has been built at Vancouver, B.C., for transporting railway cars between Comox, B.C., and a nearby smelter.

The property acquired by the C.P.R. by its purchase of the Esquimalt and Nanaimo Ry. includes the steamers City of Nanaimo, Joan and Czar.

The Dominion Government has placed a contract at New Westminster, B.C., for the construction of a new snag boat. The new construction of a new snag boat. The new steamer will be 150 ft. long, 30 ft. beam, and 6 ft. depth of hold, and will replace the Sampson, now in operation on the Fraser River.

The British Columbian Steamship Trading and Agency Corporation, a London, Eng., company, owning the barque Perseverance, and engaged in general trading along the B.C. coast, has assigned. Its liabilities are stated to be £1,990 to creditors, with no assets; and to shareholders there is a deficiency of £2,942.

The official report on the affairs of the Victoria and Esquimalt Pilotage Board, which resulted in the cancellation of the appointment of E. C. Baker as Secretary-Treasurer, recommended that the Secretary-Treasurer should not be a member of the board as at present, and that the accounts of the board should be audited annually.

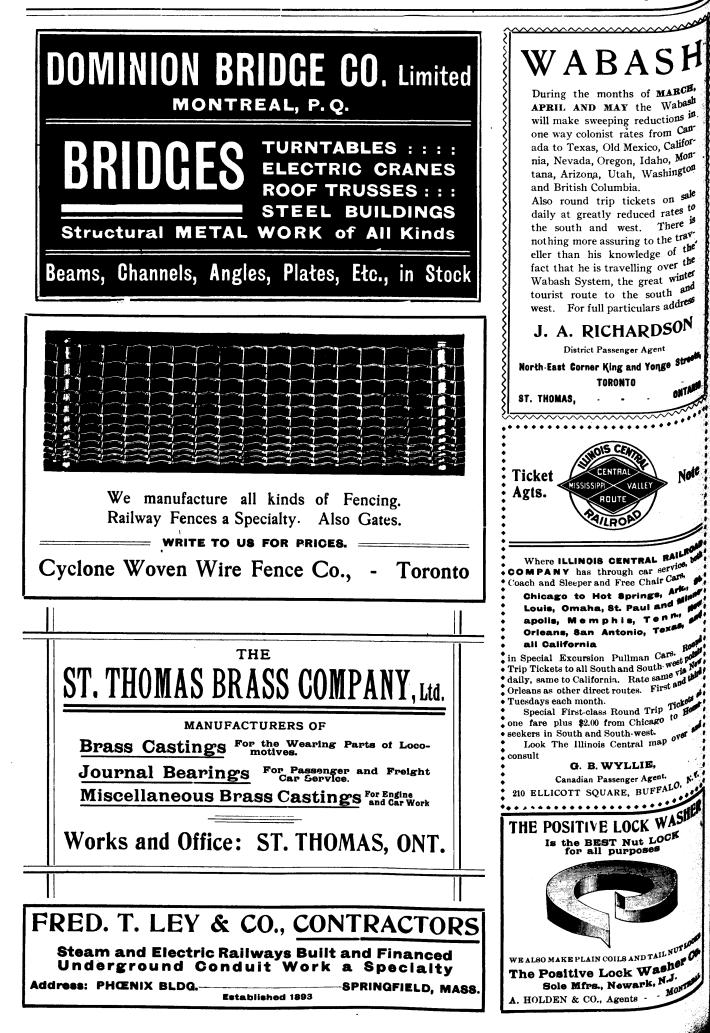
Following are the officers of the Pacific coast division of the Merchants' Service Guild of Canada:---President, Capt. W. Cox, Vic-toria; First Vice-President, Capt. T. H. Brown; Second Vice-President, Capt. G. Robertson, Nelson; Secretary-Treasurer, J. J. Martin, Victoria; Trustees, Capts. C. Eddie, Van-couver; G. Robertson, Nelson; T. H. Brown, Atlin; J. T. Walbran, W. Cox, D. G. Macaulay and J. M. Newcomb, Victoria.

The present Seamen's Act contains a provision allowing a shipping master 50 cents for shipping a seaman for a vessel's crew, which applies to British Columbia only. Some difficulty was experienced in the operation of the act, and as a result vessels have been obliged to go to U.S. ports to engage crews. It is proposed to amend the act in such a way as to enable shipping masters to delegate their powers, and to charge what is regarded as a reasonable price for the work. The bill, however, has been postponed for further consideration.

The Steamboat Inspection Act.

The bill to amend the Steamboat Inspection Act, introduced this session hv McCarthy, M.P., was referred by the House of Commons to a special committee. Deputations representing the Dominion Marine Association, and the National Association of Marine Engineers of Canada, appeared before the committee and dis-cussed the proposed new provisions at length. The principal point on which there was a difference was upon the question of the class of engineers to be employed on tug boats, and after some discussion a compromise was effected between the Marine Engineers' Association and the tug owners, the terms of which were laid before the special committee Mar. 1. The agreement provided for the insertion of a clause by which the act would not come into force until Jan., 1906, so as to leave the traffic for the present year uninterrupted. In substitution of the words, "Provided, however, that if any of the ves-

sels mentioned in this section—except the steam yachts therein mentioned—carries passengers for or without hire, such vessel shall be deemed to be a passenger steamboat for the time being and shall be subject to all the provisions of the act from which by this section such vessel is exempt," in sub-section 1, section 3 of the act of 1898, it was arranged to insert the following words:-"No steam yacht used exclusively for pleasure or private use, without hire or remuneration of any kind, no tug boat and no steamboat having an engine under 11 nominal horse-power single



engine and 21 nominal horse-power com-Bound engine, shall be subject to the require-added brine act." Words were also to be added bringing yachts and tug boats of that horse-power and over under the provisions of the act and over under the provisions ers. It respecting qualifications of engineers. It was also provided that fourth class tugs or assist act as chief engineers on tugs or assistant engineers on passenger steambats under 100 nominal horse-power, and engine mergineer now in charge of a tug boat engine may receive a permanent engineer's tortimony as to chue may receive a permanent engineer of character on furnishing testimony as to engineer and proof of 24 months' service as the proposed arengineer and proof of 24 months' service ar-rangement a tug boat. The proposed ar**nembers of the proposed at the proposed at members of the proposed at the proposed at the members of the proposed at the prop** members of the committee from the Maritime Provinces, and the whole question was ad-information the purpose of obtaining further

Steamboat Inspection Taxes. An Order-in-Council was passed Feb. 14, abolishing the boats plving to red from and from and boats plying to and from Canada from and issued to the structure to the structure structure to the structure structure to the structure structure through assued to the collectors of customs through-out the Dominication of the to cease out the collectors of customs through to collect the number of the collect states to collect the states the states of the states out the Dominion authorizing them to cease to collect the inspection tax heretofore im-canada will, however, be subject to the but without charge. The Dominion Gov-Canadian steamboat inspection as here but without charge. The Dominion Gov-enment having abolished the steamboat in-ada, it is expected that the U.S. Depart-abolish the U.S. tax imposed on Canadian States, as it is authorized to do by Act of

Huntaville, Lake of Bays and Lake Simcoc ing was held in The adjourned annual meetng was held in Toronto recently. The sented has not been made public, but we increased from the management that it showed the season of get and passenger earnings for the season of 1904, no increase in the operat-adopted and the directors were authorized a new passenger steamer for the provide a new passenger steamer for the Lake of Bays at an estimated cost of from \$18,000 to steamer will be 120 ft. long, with a width of hom and states hown and will be provided with ample dimus lowing are the commodation. Fol-Current verse officers and directors for the upper the officers and directors for the upper the the officers and directors for the upper the the theory of t Current year: President, Dr. J. H. Webb, Waterloo, Ont.; Vice-President, W. H. Pat-ro, Toronto. C. Vice-President, W. H. Patin terior, Ont.; Vice-President, W. H. Pat-Treasurer, W. General Manager and Secretary-other directors: E. J. B. Duncan, Toronto; The official triat the Allan Line tur-

The official trial trip of the Allan Line tur-trestr Vice trial trip of the Allan Line turbine str. Victoria, at Belfast, Ireland, Mar. 4, res reported to b. The steamer The steamer

Was reported to be satisfactory. The steamer left Liverpool for Halifax, N.S., and St. John, Mar 23 N.B., Mar. 23.

The announcement has been made that the C.P.R. Upper Lake steamers will call at Sault Warie Out Ste Mulper Lake steamers will call at Saund Ste Mulper Lake steamers will call at Saund Mich., which heretofore has been the only Arthur, Ont. J. P. Mat

J. p. Mabee, K.C., is to be chairman of the Ganadian Section of the International Water-Ways Commission The first meeting of the Ways Commission. The first meeting of the section was held at Ottawa, Mar. 6, when pre-liminaties were arranged and a programme action was held at Ottawa, Mar. 6, when pre-laid down as to what should be accomplished prior to a meeting with the U.S. section of the a commission Transfer to a range for Commission. It is expected to arrange for or Detroit. Mich. at an early date.

or Detroit, Mich., at an early date. The Dominion Government has entered

into a contract with the Allan Steamship Co. by which it will guarantee a line of steamers

between Canada and France. The Canadian ports will be Montreal and Quebec in summer and St. John, N.B., or Halifax, N.S., in winter, the French port to be either Cherbourg or Havre, at the option of the company. Four steamers will be placed on the line and not less than 18 round trips are to be made in the The contract extends for three vear. vears.

The new Canadian rules for the navigation of the Great Lakes, including Georgian Bay, their connecting and tributary waters, and the St. Lawrence River as far east as the lower exit of the Lachine Canal and the Victoria Bridge at Montreal, have been issued by the Department of Marine. A notice to mariners has been issued stating that the new rules come into effect April 1, and that copies can be obtained by all interested on application to the Department at Ottawa, at the Custom House, Montreal, or from the Collectors of Customs at the principal ports on the Great Lakes. A statement showing the principal changes from the old rules appeared in our March issue. The new rules are put in force by Order-in-Council, under the provisions of an Act of 1904, amending Chap. 79 of the Revised Statutes in that way. The of the Revised Statutes in that way. The rules contained in Chap. 79 remain in force on all waters in Canada, except those specific-ally mentioned in the new rules. The reason for retaining the old rules in the waters, other than those covered by the new rules, was that it was considered unwise to change the customs of navigation on waters where Cahadian vessels did not come into contact with U.S. vessels.

Among the Express Companies.

The Canadian Northern Ex. Co. has opened offices at Holmfield, Melfort, Roblin and Wakopa.

The Canadian Ex. Co. has closed its offices at Amherstburg, Ont.; Rougemont, St. Marie Salomee, St. Norbert, Que.; and Canaan, N.B.

J. C. Cummings has been transferred from the Quebec to the Montreal office of the Dominion Ex. Co., and was given a hearty sendoff by his friends at Quebec, Mar. 3.

The proposal made by W. F. Maclean, that the express companies should be brought under the provisions of the Railway Act, has again been defeated in the House of Commons.

The Canadian Northern Ex. Co. is now operating on the Oak Point section of the Canadian Northern Ry., including the fol-lowing points:-Grosse Isle, Woodlands, Lake Frances, St. Laurent, Oak Point, Man.

The Canadian Ex. Co. has opened offices at Port Carling, Ont.; Salmon Lake, Que.; and St. Anthony, N.B. During the winter season express matter to Port Carling is subject to a stage charge from Falkenberg, Önt.

As work progresses on the Greenway ex-tension of the Canadian Northern Ry., the Canadian Northern Ex. Co. is installing its service, covering the following points:-Glenora, Neelin, Louise, Holmfield, Enterprise, Lena, Wakopa.

The Canadian Northern Ex. Co. has placed its service on the Prince Albert section of the Canadian Northern Ry., accepting mat-ter for Etiomami, Greenbush, Prairie River, Bannock, Mistatim, Peesane, Crcoked River, Tisdale, Star City, Wentworth and Melfort.

We are advised that the Canadian Ex. Co. will commence operating over the Prince Edward Island Ry. upon the opening of navigation, and that the additional territory will be operated from St. John, N.B. Offices will be opened at the principal places on the line, but just where they will be located had not been determined.

The main line of the Canadian Northern Ry. being now in full operation to Hum-boldt, 425 miles west of Winnipeg. the boldt, 425 miles west of Winnipeg, the Canadian Northern Ex. Co. is accepting shipments for Veregin, Mikado, Canora, Tiny, Buchanan, Rama, Invermay, Margo, Kuroki, Tiny, Kylemore, Wadena, Paswegin, Englefeldt, Lally, Wimmer, Watson, Clairvaux, St. Greg-or, Muenster and Humboldt.

The Great Northern Ex. Co., which has a capital of \$1,000,000 and head offices at St. Paul, Minn., has been registered in British Columbia as an extra-provincial company. The offices in British Columbia are at Rossland, and A. H. MacNeill is the company's attorney. The Great Northern Ex. Co. operates over the lines in British Columbia controlled by the Great Northern Ry., U.S.

"The express business of to-day is a separate and distinct branch of the commercial traffic of railway and other transportation lines, and constitutes that part of the merchandise traffic of the country which the railroad companies have found it inexpedient to handle to the satisfaction either of the public or of themselves. This business does not, as it is sometimes erroneously believed, consist alone of the parcel traffic and of ship-ments of money and valuables and of packages and boxes of inconsiderable weight, but it embraces that part of the shipments of nearly every weight and description for which producers, merchants, manufacturers or dealers require especially expedited transportation and a complete and effective agency and custody. Its transactions are not con-fined to local or prescribed territory."---Railway World.

Telegraph and Cable Matters.

The C.P.R. Telegraph Department has opened a town telegraph office in Saskatoon, Sask.

Residents in the vicinity of Saskatoon, Sask., state that the service on the Government telegraph line is not satisfactory.

We are advised that the C.P.R. Telegraph Department expects to extend its line to Yarmouth, N.S., some time, but that nothing definite has been yet done in regard to it.

The Canadian Northern Telegraph Co. has opened offices at Canora, Fork River, Hum-boldt, Holmfield, Invernay, Mafeking, Mel-fort, Neelin, Roblin, St. Laurent, Sanford, Wakopa, Wadena, and Watson.

The C.P.R. Telegraph Department has completed arrangements for carrying underground the wires from its present terminus at Little St. Antoine St., Montreal, to Windsor St., as soon as possible in the spring.

The Canadian Northern Telegraph Co. is pushing its construction work westward. Communication is now established with an office at the second crossing of the North Saskatchewan river, over 500 miles west of Winnipeg.

The Pacific Wireless Telegraph Co. has opened a station at Victoria, B.C. The pres-ent mainland station is at Seattle, Wash., but it is expected to arrange for the establishment of one at Vancouver, B.C., at an early date.

The thickly settled district through which the Oak Point section of the Canadian Northern Ry. is built now has a telegraph service given it by the Canadian Northern Telegraph Co., which has opened a commercial office at St. Laurent.

The Marconi Wireless Telegraph Co.'s officers state that the Canadian station is superior to that at Poldhu, Cornwall, Eng., which accounts for the fact that the service between Canada and England is more satisfactory than that from England to Canada.

The C.P.R. telegraphers on the western lines recently sent representatives to Winnipeg, to discuss wages and other matters with



the management. was reached by which some advances were given and other differences settled.

The Canadian Northern Telegraph Co. has taken over from the Canadian Northern Ry. Construction Department the wires west of Rewood on the Prince Albert extension, and has opened a commercial office at Melfort. Communication with Prince Albert is expected before July 1 next.

The Dominion DeForrest Wireless Tele-

The Dominion DeForrest Wireless tere-Ontario Co. has been incorporated under the \$1,200,000 and offices at Ottawa, to establish incless telegraph attations. The provisional directors are: L. J. Lemieux, F. J. Humphrey, The Faced and E. Brassard, Montreal. The Fessenden Wireless Telegraph Co. of anada : senden Wireless Telegraph Co. of

Canada is the title under which the incor-poration of the title under which the cur-Poration of a company is sought at the cur-tent session of the Derivision Parliament, to rent session of the Dominion Parliament, to stablish and operate a business of tele-Raphic or other electric or magnetic communication by means of a wireless or other

The proposal to extend the British-West India cable now operated between Halifax, N.S. and Deriver Perhados and St. N.S., and Bermuda, to Barbados and St. Lucia, is being regarded with favor in those been started in islands, and a movement has been started in British Cuite movement of South British Guiana, on the mainland of South America, to have the extension carried to Georgetown.

Rollowing are statistics of the telegraph ines of the Dominion for the year ended June

Length of Length of No. of 0...

O.N.W m.	line	cond'rs	offices	
P.B. Telegraph	miles.	miles.		
C.P.R. Telegraph Co Western Union Teleg. Co Dominion telegraph lines	18,286	35,721	1,455	
Dominion telegraph ines	10,018	45,943	1,152	
The telegraph i Co.	2,784	13,069	221	
and Commentances	6,270	6,270	327	
The Commercial Cable	Co ha	obtain	ed the	
and. " Of the to	CO, 11a.	5 Obtain	cu inc	

ing of an additional cable at its station at Canso, N.S. The first of the company's in 1881 and the the cable steamer Faraday in 1881, and the proposed cable will be the be used principally for stock exchange work, will be made and bid by one of the British will be made and laid by one of the British cable construction companies.

The first report of the Mackay Companies, hich one of the Mackay Companies, which owns the Commercial Cable Co., and shares in other to the Mackay Company. shares in other cable, telephone, and telegraph companies in the Tritical States Canada and ompanies in the United States, Canada and Europe hash the United States, Canada is \$100,-Burope, has been issued. Its capital is \$100,-common stock, of which there are outstand-of common stock. It is and \$41,380,400 and cash assets and has \$820,323.70 in cash common stock. It has \$820,323.70 in cash and cash assets, and has no debts. come from investments is more than sufficient to pay quarter to the sufficient of 1 % on the pre-Whe from investments is more than sufficient to pay quarterly dividends of 1% on the pre-ferred stock, and semi-annual dividends of loss account shows receipts of \$1,643,676.93 cable Co., and from 14 602 shares in 30 other Cable Co., and from 14,692 shares in 30 other cable, telegraphic telegraphic telegraphics of cable, telegraph and telephone companies, of which the distance of the standard elephone distance \$1,559,-Which the dividends paid absorbed \$1,559,-43.28, and expenses \$20,035.01, leaving The CDD T

The C.P.R. Telegraph Department has arranged to complete its underground system Windsor Strate of the state of Windsor Street station, and will also carry the year: String on odditional wire from Monthe the following construction work unter the year: String an additional wire from Montreal to St. Agathe, Que., 60 miles, for com-mercial business. Install a complete storage additional copper wire from Winnipeg to wires from Brandon. Man., to Broadview, wite Current, Assa., 511 miles. String iron Assa., 132 miles; Calgary, Alta., to Cranbrook B.C., 275 miles; Calgary, Alta., to Cranbrook B.C., 99 miles; and from Sicamous to Revel-

stoke, B.C., 46 miles. String a copper wire from Dunmore to Laggan, B.C., 302 miles; and from Laggan to Revelstoke, B.C., 146 miles. String two copper wires from Winnipeg to Emerson, Man. This will give a total of to Emerson, Man. 1,089 miles of new copper wire and 612 miles of new iron wire. In addition to this there will be new pole lines and wires erected along new lines of railway under construction as fast as the rails are laid. These lines include the Guelph and Goderich Ry., the line between Toronto and Sudbury, Ont.; and the extensions in the Northwest. In addition to the new work a large amount will be expended for construction and general repairs to existing lines.

General Telephone Matters.

The telephone system at Prince Albert, Sask., is being converted to a metallic circuit system.

The Vernon, B.C. Board of Trade is promoting the formation of a local company to estab-lish a telephone system there.

The Merchants' Telephone Co., Montreal, denies the press reports that it is about to dispose of its business to the Bell Telephone Co.

The Manitoba Government is investigating the idea of establishing a system of telephones in the province, to be owned by the Government.

The British Columbia Telephone Co. has submitted a proposition to the various towns in the Okanagan Valley to establish a telephone system there.

The Telephone Company of Prince Edward Island has constructed a steel bridge on which to carry all the cables coming into its exchange building at Charlottetown.

The local telephone system at Nanaimo, B.C., has been absorbed by the British Col-umbia Telephone Co. It is proposed to put in a metallic circuit and to otherwise improve the line.

The Brantford, Ont., city council has decided to re-open the local telephone question by calling for offers for the establishment of telephone system there to compete with the Bell system.

The bill incorporating the Northwest Telephone Co. has been passed by the House of commons, a clause being inserted compelling the company to deliver messages originating on any connecting lines.

The Kamarouska Telephone Co. has had its capital increased to \$74,000, and has been given authority to issue bonds to the extent of two-thirds of its immovable property, under the provisions of the Quebec Companies' Act

A company has been formed at New Liskeard, Ont., with a capital of \$25,000, to construct telephone lines throughout the Temiskaming district. The company has not yet been registered. D. Stewart, New Liskeard, is Secretary-Treasurer of the provisional organization.

The Department of Marine has issued a notice detailing the marks placed to show the position of the telephone cable recently laid between Vancouver Island and the mainland of Washington, U.S., and cautioning mariners against anchoring their vessels in the vicinity.

The Fort William, Ont., town council will apply at the current session of the Ontario Legislature for an act confirming a number of by-laws, among them being one for the purpose of raising \$11,500 on debentures for the purpose of improving and extending the municipal tabletary articles municipal telephone system.

The Crow's Nest Pass Electric Light and Power Co., which operates a telephone system in Fernie, B.C., has purchased the rights of the British Columbia Telephone Co. to oper-ate in that district. This will end the litigation which had been initiated by the Fernie town council to stop the B.C.T. Co. erecting its poles in the town.

The Bell Telephone Co. is offering to establish a rural telephone system in Waterloo county, Ont., at \$15 an instrument, and 5 cents a call to telephones on the Berlin and Waterloo exchanges, if an instrument is guaranteed for every mile of line built. The farmers who met the company's representative expressed an opinion that there should not be any charge for the calls to Berlin and Waterloo.

The People's Telegraph and Telephone Co., Ltd., has been incorporated under the Ontario Companies' Act, with a capital of \$40,000, and offices at Maynooth, Ont., to carry on a tele-graph and telephone business in the northern part of Hastings county, and the southern portion of Nipissing district. The provision-al directors are: W. J. Sergeant, S. Harryett, Bancroft, Ont.; W. J. Fitzgerald, T. P. Netterville, D. Smith, Maynooth, Ont.

The large number of petitions which have been presented to the House of Commons asking that an act be passed giving telephone companies power to erect poles on streets only with the approval of the local municipality, initiated a discussion in the course of which the Premier stated that perhaps the time had come when they should have some general law to regulate telephone companies and especially to guarantee and protect the interchange of traffic.

The House of Commons has appointed a committee, of which Hon. Sir Wm. Mulock has been appointed chairman, to investigate the telephone question in Canada. At the opening meeting of the committee, the Post-master-General suggested the consideration of a plan along the lines of that adopted in Great Britain, where the trunk lines are owned and operated by the Government. He also suggested the consideration of a plan for providing telephones by local municipalities somewhat on the lines adopted in Sweden, where in certain towns telephones are provided in every house, the cost being met out of rates.

Bell Telephone Company of Canada.

The report for the year 1904 presented at the annual meeting in Montreal, Feb. 23, stated that 8,988 subscribers were added during the year, the total number of sets of instruments now earning rental being 66,160. The company owns and operates 475 ex-changes and 789 agencies. 1,242 miles of wire were added to the long distance system The long distance lines owned and in 1904. operated by the company comprise 32,211 miles of wire on 7,866 miles of poles. 20,000 shares of new stock were offered to the shareholders at 25% premium, with the option of paying for them in full or in quarterly instalments. 16,845 shares were paid up in full. \$1,916,960 was received during the year on account of stock, and \$479,240 for premium thereon. The latter amount in accordance with the company's usual custom, has been carried to contingent account. From the carried to contingent account. From the balance of revenue account, \$154,323.96, \$35,565.26 was carried to insurance reserve account; \$23,958.25 to accident insurance . reserve account, and \$50,000 to contingent account; leaving balance of revenue to be carried to 1905, \$44,800.45.

RECEIPTS

Exchanges (less unearned rentals)	\$1,980,185.51
Long distance lines Private lines	761,991.15 14.735.48
Miscellaneous	176,741.57

[APR., 1905.



Operating. E: Legal Insurance.		
Legal.	APENSES.	
Insurance Bond interest Miscellancours	\$2,073,492.35	
bond inte	19,963.52	
uscellane	25,409.14	
Bond interest Liscellaneous	100,000.00	
	12,000.21	#2 021 710 00
Net Review		\$2,231,748.28
Net Revenue for 19 Less dividends (In)	904	701,905.43
indends (In	c.) Jan. 15 1905	588,117.60
Salance Revon		\$ 113,787.83
Balance Revenue f	rom 1903	40,536.13
Carried to accident		\$ 154,323.96
Carried	e	
Carried to accident reserve	\$ 35,565.26	
Carried to contingent	23 050 25	
account contingent	23,958.25	
Carrie		109,523.51
forward to		1(1),020.01
Carried forward to '0	5	\$ 44,800,45
Stock		
Bond account	NCE SHEET.	
Stock account BALA Bond account	· · · · · · · · · · · · · · · · · · ·	\$7,916,960.00
Add prem. on stock. Add from rev. acct. Revenue account.	· _ · · · · · · · · · · · · ·	2,000,000.00
tros on stool	*1,310,170,24	
Revenue account Unearned rental reserve Accident reserve	479,240.00	
Insurned rental		1,845,410.24
Justica account Justica reserve Accident reserve Bond interest reserve Sundry creditors	е.	44,800.45 397,087.86
Bond in reserve	• • •	200,000,00
oundry erest resources		100,000,00
	*****	25,000.00
Bond interest reserve. Sundry creditors.		320,253,80
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	1.175 441 67	
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Dores Of Dec. 31 ac.		
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De in cui	389.789.71	
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	149,265.37	
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P	575,702.50	#12.040 F12 FT
to the group C. F. S		\$12,849,512.35
he we prove I. S.	150 001	

by the growth of the corporation. Twentywith a capital of \$397,000. To-day the capand the bond issue \$2,000,000. In 1885 the is just a trifle short of \$8,000,000 in stock, it is just a trifle short of \$8,000,000 in stock, it is 32,000 miles. Ten years ago there were and the bond issue \$2,000,000 during the 12 ame period. Ten years ago there were throughout Canada numbered 29,000; to-day the 20,000 instruments earning rental who have a premium of 25% in spite of the of the considered gratifying. A portion for the banks. Eight years ago the comform the banks. Eight years ago the comform the banks. Eight years ago the comform the banks. Eight years ago the comfor all time; now they had been obliged have noney accruing from this source, issued during the year switchboards. issued three issued in paying off a loan under the delusing they had been obliged issuing \$2,000,000 additional stock, a way had installed apparatus in Montreal to fissuing \$2,000,000 additional stock, a issued to future contingencies, but he sufficient for future contingencies, but he readed to grant additional powers without a of the outpelle of Toronto. Referring to may shal score, appreciably. There were issued to trouble, owing to the opposition of the were paying withen a to be proson of the people of Toronto. Referring to may shal score, appreciably. There were issued to grant additional powers without a of them were paying withen here in the business but none of them were paying withen a commercial entre, they shall concerns in the business but none of them were paying withen a commercial entre, they shall concerns in the business but none of them were paying withen here a number of small weiner to the farmer than a commercial entre, they served a class of customers who did the Net Concerns in the business but none of them were paying dividends. In the neighthem were paying dividends. In the neighthem were paying dividends. In the neighthem were pay the price for the Bell service, now owned, through process of g

out Canada and, on May I, the company would move into its new building in the east end of Montreal. Much criticism had been caused by the introduction of the slot telephone. These had been introduced for the reason that certain subscribers had not lived up to their contract, which does not permit a use of the telephone by the general public. Within three days of the time the slot machine was introduced into saloons, cigar stores, etc., different firms on St. James street had come and subscribed, indicating that they had for years been conducting their business over their neighbors' phones.

neighbors' 'phones. The directors were re-elected. The board for the current year is President, C. F. Sise; Vice-President, Hon. R. Mackay; other directors, F. P. Fish, R. Archer, W. R. Driver, H. Paton, C. Cassils, T. Sherwin.

PURCHASING AGENTS' GUIDE.

(Continued from third page of cover.)

Car Wheels Jas. W. Pyke & Co.,
Castings Crossen Car Mfg. CoCobourg, Ont.
Castings (Steel) Montreal Steel Works
Cast-Steel Hammers American Brake Shoe & F'dry Co Mahwah, N.J.
Cast-Steel Track Tools American Brake Shoe & F'dry CoMahwah, N.J.
Cast-Steel Wrenches American Brake Shoe & F'dry CoMahwah, N.J.
Cement Thorn Cement CoBuffalo, NY
Cement Machinery Jas. W. Pyke & CoMontreal.
Coal Haulage Ropes The B. Greening CoHamilton, Ont.
Concrete Thorn Cement CoBuffalo, N.Y.
Concrete Mixers and Rock Crushers F. H. Hopkins & Co
Conduit Contractors F. T. Ley & CoSpringfield, Mass.
Contractors F. T. Ley & CoSpringfield, Mass.
Contractors' Plant F. H. Hopkins & Co. Montreal. T. A. Morrison & Co. Montreal. Montreal. W. H. C. Mussen & Co. Montreal.
Cooking Apparatus Geo. R. ProwseMontreal,
Copperware Geo. R. Prowse,Montreal.
Copperware Geo. R. Prowse,
Geo. R. Prowse,
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Geo. R. Prowse,
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Drawing Materials Eugene Dietzen CoNew York
Dredges The Bertram Engine Works CoToronto
Drilling Machines The John Bertram & Sons Co Dundas, Ont.
Drills W. Abbott
Dry Goods The Hudson's Bay Co
Dynamo and Electric Castings American Brake Shoe & F'dry CoMahwah, N.J.
Economizers Babcock & Wilcox (Ltd.)Montreal.
Electric Car Fenders The G. B. Meadows Wire, etc., Co. Toronto.
Electric Car Route Signs Acton Burrows CoToronto.
Electric Car Wire Guards The G. B. Meadows Wire, etc., Co
Electric Cranes Canada Foundry Co
Electric Ry. Brake Shoes American Brake Shoes & F'dry CoMahwah, N.J.
Electric Railway Builders F. T. Ley & CoSpringfield, Mass.
Enameled Iron Signs Acton Burrows Co
Engineers' Supplies
The Canadian Rubber Co. of Montreal. The James Morrison Brass Mig. Co Toronto. Williams & Wilson Montreal Engines, Hoisting
The Bertram Engine Works Co
The Bertram Engine Works Co
Englnes, Steam Erie Heating CoChicago. Ill. Williams & WilsonMontreal.
Engraving Toronto Engraving CoToronto.
Express Office Signs Acton Burrows CoToronto.
Feedwater Heaters Babcock & Wilcox (Ltd.)Montreal. Williams & WilsonMontreal.
Fencing Canada Foundry Co
Fire Brick Garden Sand Co
Fire Escapes The G. B. Meadows Wire, etc., CoToronto.
Fire Insurance Dale & Co
Flags The Hudson's Bay Co.
Flour The Hudson's Bay Co
Forgings Crossen Car Mfg. CoCobourg, Ont. General Railway Signal CoBuffalo, N.Y.
Gas and Electric Fixtures
The James Morrison Brass Mfg. Co Toronto. Gas Pipe (Cast Iron)
Gartshore-Thompson Pipe & F'dry Co., Hamilton. Gates
Canada Foundry Co
Gauges, Steam and Vacuum, etc. The James Morrison Brass Mfg. CoToronto Grain Elevators
John S. Metcalfe CoChicago, Ill Groceries
The Hudson's Bay Company
Crossen Car Mfg. CoCobourg, Out W. H. C. Mussen & CoMontreal Hardware
The Hudson's Bay Company
N. L. Piper Railway Supply Co
Crossen Car Mfg. CoCobourg, Ont Heaters
Erie Heating Co Chicago, Ill

(Continued on page 179.)

Acton Burrows Co......Toronto.

THE RAILWAY AND SHIPPING WORLD.



[APR., 1905.

CHURCH & LODG

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COURT HOUSE &

DINUG STORE FITTINGS.

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PURCHASING AGENTS' QUIDE.
(Continued from page 177.)
Big for Power Plants Rese, Air Brake and Steam Rese, Air Brake and Steam
Rose, Air Brake and Steam The Canadian Rubber Co. of Montreal
The Canadian Rubber Co. of Montreal. The Canadian Rubber Co. of Montreal.
The Canadian D. Co. of Montreal.
The Canadian Rubber Co. of Montreal.
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Crucial and Signalling Interlocking Signal Co
The Cacina Works. Montreal
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Locomotive Works District Airy Co Mahwah, N.J. Locomotive Compressed Air) Locomotive and Machine Co. of Montreal. Canada Rocomotive Works District Andrea
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Locomotive Works Ditter
We and the Philadelphia Pa
Se Sting
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add Machine CoLima, Ohio. Locomotive (Back) Locomotive and Machine CoPhiladelphia, Pa. Badying (Steam) Canada Foromotive Worls
Baldwin (Steps) Philadelphia, Pa.
Canada Foundry Works
Hicks & Co. Philadelphia, Pa.
Locomotine & Co
Acomotive and Wachine Co. of Montreal. Baldyin Locomotive (Steam) Canada Roumotive (Works Philadelphia, Pa. P. Jaka Roundry Co. Works Philadelphia, Pa. P. Jaka Roundry Co. Toronto. F. Jaka Roundry Co. Toronto. In Hopking Co. Kingston, Ont. Locomotive and Anchine Co Montreal. The Savier and Machine Co Montreal. The Savier and Machine Co Lima, Ohio Comotive Stack Notting Comotive Stack Netting Canada Finite The
The G. B. Meadows Wire, etc., Co
Loomotive Tile Gates City San
Cit le Toronto.
Achine Trole W. Abbott. The Short CoChicago, Ill.
Contout we the state of the sta
Wilson Works Montreal.
White Tools W. Abbott. Williams Braine Works. Williams Braine Works. John Montreal. John Morrow Machine Screw Co. Shells Bergy, Machine Screw Co. Shells Bergy, Machine Screw Co. Shells Market Screw Co. Shells Mark Company Machine Screw Co. Shells Mark Company Mark Com
Achine Screws, Set Cap and Planer Stelling Machine Screw Co Ingersoil.
R. Co.
John Korrow & Serews, Set Cap and Planer Machine Screw Co Ingersoil.

Machinery, Mining The Bertram Engine Works Co
Machinery Repairs The Bertram Engine Works CoToronto.
Machinery Repairs, Marine Sheriffs Mfg. CoMilwaukee, Wis.
Manganese Steel Castings Montreal Steel Works
Manhole Frames and Covers American Brake Shoe & F'dıy CoMahwah, N.J.
Marine Insurance Dale & Co
Mats and Matting The Canadian Rubber Co. of Montreal.
Mechanical Draft Fans
Babcock & Wilcox (Ltd.)Montreal. Milepost Numbers Acton Burrows CoToronto.
Milling Cutters
W. AbbottMontreal. Williams & WilsonMontreal. Milling Machines
The John Bertram Sons CoDundas, Ont. Mills, Boring and Turning
The John Bertram Sons CoDundas, Ont. Moulding Sand
Garden City Sand CoChicago, Ill. Nickel
The Orford Copper Co
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Acton Burrows Co
John Morrow Machine Screw CoIngersoll. Nuts, Square and Hexagon
Canada Foundry Co
Oakum The Hudson's Bay Company
Office Desks Canadian Office & School FurnitureCo., Preston, Ont
Office Fittings Canadian Office & SchoolFurnitureCo., Preston, Ont.
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Olls Galena Signal Oil Co., Franklin, Pa., and Toronto.
Packing The N. L. Piper Railway Supply Co Toronto.
Williams & WilsonMontreal. Packing, High Pressure Sheet
The Canadian Rubber Co. of Montreal. Packing, Piston
The Canadian Rubber Co. of Montreal. Paints, Acid Proof and Anti-rust
American Asphaltum & Rubber CoChicago, Ill. Paints, Asphaltum
American Asphaltum & Rubber CoChicago, Ill. Paints, Bridge
American Asphaltum & Rubber CoChicago, Ill. Paints, Locomotive Front end
American Asphaltum & Rubber CoChicago, Ill. Paints, Mineral Rubber
American Asphaltum & Rubber CoChicago, Ill. Paints, Structural Iron
American Asphaltum & Rubber CoChicago, Ill. Pinch Bars
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The Hudson's Bay Co Rotary Snow Ploughs
Crossen Car Mfg. CoCobourg, Ont. Rubber Tiling, Interlocking
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The James Morrison Brass Mfg. Co Toronto.
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Screws, Coach and Log Toronto Bolt and Forging Co Toronto.
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Side Bearings Simplex Railway Appliance CoMontreal

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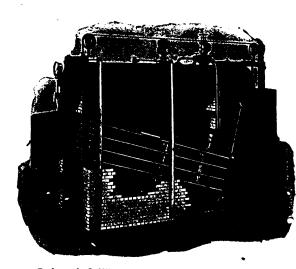
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